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The OIL WEEKLY

A Journal for
Oil Producers and Field Men

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IN THIS WEEK'S ISSUE

U. S. PRODUCTION CLIMBING
The daily average production of crude oil in the United States the week ending October 21 was close to one million six hundred thousand barrels. Page 17.

NORTH TEXAS STOCKS OFF
The storage facilities for crude oil in North Texas are less than 39 per cent. filled. Page 30.

NORTHERN ARCHER COUNTY
The Northern Archer County section is in the limelight in North Texas. See map. Pages 27 and 29.

ANOTHER POOL IN KANSAS
Elk County is the home of the new Kansas field and several tests are going down. Page 24.

GAME OF SEE SAW
In North Texas the crude market is weaker, while in Oklahoma the demand is better for free oil. Page 17 and 18.

GASOLINE CUT ONE CENT
A cut of one cent in the price of gasoline was announced in California, the first change in price in about a year. Page 20.

RECEIVER MAKES REPORT
Receiver Delano of the disputed area in Red River in North Texas makes his report, showing about $10,500,000 revenue from wells under his control. Page 11.

RESTORING OLD FIELDS
Many of the old pools almost ready to be abandoned are being restored or can be, according to Geological Survey expert. Page 10.

OTHER FEATURES

	Pages
Arkansas	46, 48
Cenrtal West Texas	25 to 27
Coastal Bollweevil	94
Crude Oil Markets	17 to 19
Eastern States	50 to 54
Editorial	7
Gulf Coast Field	37 to 41
Kansas	24
Louisiana Fields	42, 43
Mexia	32
Mexico	58, 59
Mountain States	20
New Equipment, Etc.	91
North Texas	28, 29
Oklahoma	22, 23
Permits to Drill	33, 34
Personals	92, 93
"Squeaks"	96
West Coast	56, 57
Wildcats	62 to 70

KEY TO ABBREVIATIONS
Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

TO END SHUT DOWN ORDER?
The Oklahoma Shut Down Committee has asked Department of Interior to rescind order forbidding the drilling in of wells in the Osage. Page 7.

NEW WELL AT RICHLAND
The second well has been completed in the Richland area near Mexia. Page 32.

CHANGES IN HUMBLE OFFICIALS
R. S. Sterling has been made chairman of the board of the Humble Oil and Refining Company and W. S. Farish is the new president. Page 8.

PREMIUMS IN GULF COAST
There is a better feeling in Texas Gulf Coast circles brought about by premiums being offered for crude. Page 37.

SOMETHING IS WRONG
Wm. N. Davis, president of the Mid-Continent Oil and Gas Association, gives his views of the present situation in the production end of the oil business. See Page 14.

THE LAREDO DISTRICT
Many are wondering what the oil fields in the Laredo, Texas, district are really doing. The matter is discussed and logs of wells given, starting on page 16.

TAKING CORES WITH ROTARY
John Suman tells about taking cores in rotary drilling. Starts on page 13.

SMACKOVER VS. BELLEVUE
Which field will be the largest and best? That question is under discussion at Shreveport. See pages 42 and 46.

PAUL IS GOING TO DENVER
The Coastal Bollweevil has an awful time on the Pullman en route geologists meet. Page 94.

The NEW

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All wiring and cable work done before shipping.

Enclosed entrance switch.

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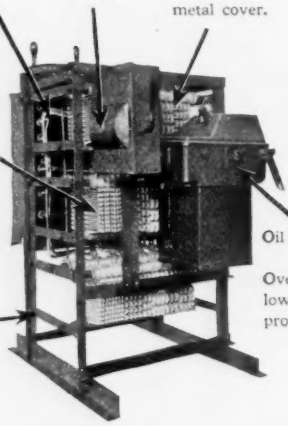

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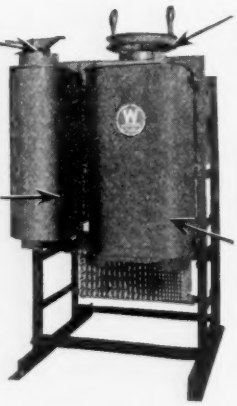

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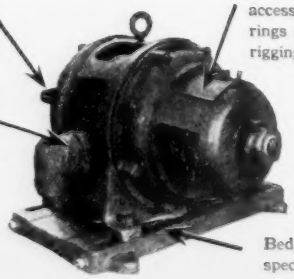

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INDEX TO ADVERTISERS

A

Ajax Iron Works ..... *
American Well and Prospecting Co... ..... Back cover
Atlas Supply Co. 67
Axelson Machine Co. ..... *
American Tank Co. .... *

B

Barnickel, W. S. & Co. 42
Beaumont Well Works Co. 64
Bessemer Gas Engine Co. ..... *
Bridgeport Machine Co. 89
88, 86, 90, 70, 68, 69, 41, 60, 63, 64, 65
Black, Sivalls & Bryson 6
Brownell Co. ..... *
Buckeye Traction Ditcher Co. ..... *
Boykin Machinery & Supply Co. .... *

C

Caudill, S. J. 63
Chapman Valve Mfg. Co. 33
Chicago Bridge & Iron Works ..... *
Clark Bros. Drilling Engine ..... *
Clark Machine Co. 88
Columbian Steel Tank Co. ..... *
Continental Supply Co., Inside front cover
Cosden & Co. ..... *
Coste, E. & Co. 63

D

Darnell & Eaton 65
Darling Valve & Mfg. Co. 44
De Laval Separator Co. ..... *
De La Vergne Machine Co. ..... *
Deussen, Alexander 63
Dunn Manufacturing Co. 60
Dyer, C. A. ..... *

E

Empire Refineries 51
Enameled Metals Co. 9
Exchange Bank of Tulsa ..... *

F

First National Bank of Tulsa ..... *
Fort Worth Laboratories 65
Foos Gas Engine Co. 49
Foxboro Co., Inc. 68
Franklin Valveless Engine Co. 31
Freeborn Engineering Corporation 65
Frick-Reid Supply Co. 47

G

Gardner Governor Co. ..... *
Gaso Pump & Burner Mfg. Co. 71
Glen, James 65
Goodrich, B. F. Rubber Co. ..... *
Goulds Manufacturing Co. 88
Guiberson Corporation 6

G—Continued

Gulf Coast Machine & Supply Co. ...20
Gulf Refining Co. 85

H

Hager, Dorsey 63
Hardway & Cathey 66
Harrisburg Pipe & Pipe Bending Co. .....Inside back cover
Heitmann, F. W. & Co. 64
Henley, A. S. 63
Heydrick Mapping Co. 65
Hill, Robert T. 63
Hirsch & Hannay 66
Hope Engineering Co. 89
Hopkins, Edwin B. 63
Hotel Lassen 41
Hough Mfg. Co., Charles N. 79
Houston Pump & Supply Co. 15
Hubbard & Son ..... *
Hughes Tool Co. .....Front cover
Humble Oil & Refining Co. 81

I

Ingersoll-Rand Co. ..... *
International Derrick & Equipment Co. *
Interstate Pipe Co. 53

K

Kreiter Machine Co. ..... *
Kansas City Structural Steel Co. 96
Kansas City Hay Press & Tractor Co... *
Kaw Boiler Works Co. ..... *
Kelly & Jones Co. ..... *
Kosmos Petroleum Co. ..... *

L

Layne & Bowler Co. 55
Lassen Hotel ..... *
Larco Wrench & Mfg. Corp. ..... *
Lucey Manufacturing Corp. ..... *
Lufkin Foundry & Machine Co. ..... *
Ludlow Valve Mfg. Co. ..... *

M

Maloney Tank Mfg. Co. 57
Matson, George C. 63
Midland Refining Co. ..... *
Moore, Lee C. & Co. ..... *
Mosher Steel & Machinery Co. 86
McEvoy, J. H. & Co. ..... *
Myrick Machine Co. ..... *

N

National Supply Companies 95
National Transit Pump & Mch. Co. ..68
Navarro, Jose ..... *
Norris Bros. 69

O

Oil Well Supply Co. 77
Oklahoma Tool & Supply Co. 87

P

Parkersburg Rig & Reel Co. 60
Peden Iron & Steel Co. 86
Pelican Well Tool & Supply Co. 45
Pennsylvania Tank Car Co. ..... *
Petroleum Rectifying Co. ..... *
Petroleum Safety Appliance Co. 84
Petroleum Supply Co. ..... *
Petroleum Iron Works Co ..... *
Phoenix Iron Works Co. 70
Phillips, F. S. 65
Pittsburgh-Des Moines Steel Co. ..... *
Powell Co., Wm. ..... *
Pratt & Cady 83

R

Reading Iron Co. ..... *
Reading Valve & Fittings Co. ..... *
Reading Steel Casting Co. ..... *
Robertson-MacDonald Lumber Co. ..... *
Rock Map Co. 65
Rotary Disc Bit Co. 78

S

Shreveport Chemical Company ..... *
Sinclair Refining Company 58
Southern Brass Mfg. Co. 40
Southern Engine & Pump Co. ..... *
Southwest General Electric Co. 8
Standard Oil Co. (N. J.) ..... *
Standard Seamless Tube Co. 90
Stone, Jesse R. 66
Sullivan Machinery Co. ..... *
Sunshine State Oil & Ref. Co. 70
Superior Tube Co. 73
Sur, F. J. S. 63

T

The Texas Co. 79
Texas Employers Ins. Assn. 40
Texas Supply Co. 64
Texas Petroleum Bureau 65
Titusville Iron Works ..... *
Trumble Gas Trap Co. 21
Tulsa Boiler & Sheet Iron Works..69, 5

U

Union Tool Co. ..... *
Union Petroleum Co. ..... *
United Iron Works, Inc 89

V

Vilter Manufacturing Co ..... *
Vinson, Elkins & Wood 66

W

Wellman, E. T. ..... *
Western Machinery Co. ..... *
Western Supply Co. 45
Westinghouse Electric & Mfg. Co. .. 4
White Oil Corp. ..... *
Wiggins Supply Co. 64
Wilcox Oil & Gas Co. 64
Williams, F. N. 65
Williams, J. H. & Co. ..... *
Williams Tool Corporation ..... *
Williamsport Wire Rope Dist. Co. ..75
W. K. M. Co. 39
Wilson & Willard Mfg. Co. ..... *
Williamsport Wire Rope Co. ..... *
Wyatt Metal & Boiler Works 46

Y

Youngstown Boiler & Tank Co.....83

*Printed in one or more issues of each month.

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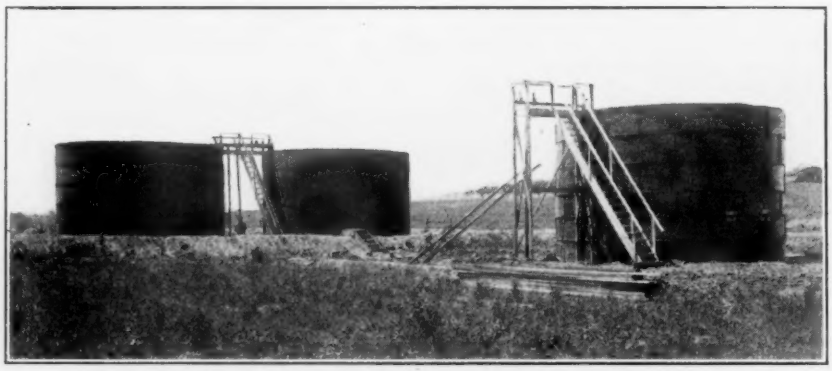

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THE OIL WEEKLY

An International Oil Publication for Oil Producers

ESTABLISHED 1916

MEMBER AUDIT BUREAU OF CIRCULATIONS

VOL. XXVII—NO. 5

Expect Vacation of Shut Down Order

Committee in Oklahoma has asked that Osage restrictions be lifted

TULSA, OKLA., Oct. 25.—Unless officials at Washington decline to grant the request of the Central Committee on Shut-Down and Storage, drilling restrictions in Osage County shortly will be lifted. A resolution asking for a vacation of the restrictive order of the Department of the Interior, issued Oct. 5, was addressed to the Department here October 21.

This resolution places the committee in the light of not wanting to bear the responsibility of compelling a few oil producers of the Burbank pool to bear the burden of a shut-down, which the committee had hoped to be general. In asking for the vacating of the order, the committee asked that the Osage territory be placed on a footing similar to other Indian reservations of Oklahoma, where immediate drilling obligations have been removed, when desired by lease holders and when delay will bring no harm to oil and gas bearing formations.

Up to Interior Department

Since the Department of the Interior issued the Osage order on the plea of the Central Committee on Shut Down and Storage, it is considered certain that the order will be vacated on recommendation of the committee. It required 10 days to bring the first order. That much time may be required for an order vacating the restrictions.

With drilling restrictions removed, the question of Burbank production again comes to the fore. The daily output for the past week from this pool was 80,200 barrels, a drop of 3,200 barrels from the previous week, which was the record mark for the pool, 83,500 barrels daily.

Since the department ruling of October 5 prevented the completion of other than necessary offset wells, the completion list at Burbank has shown a decrease.

There has however, been no let-up in drilling, since the order permitted the drilling of wells to the top of the sand. Neither has there been any decrease in rig building in the prolific parts of the field, as the order did not forbid rig building, although it did prevent the spudding of new wells.

So the removal of restrictions, whenever the order may come, is going to find scores of wells on the sand, ready for completion. That time also will find many rigs ready for spudding new wells. This is especially true in leases held by the Gypsy Oil Company and the Phillips & Skelly combination on the north side of the pool, where big wells were being completed at the time restrictions were issued.

With an early removal of restrictions, it is not improbable that Burbank production again will take the upward turn and start for the 100,000 barrel mark, a figure it seemed sure to reach when completions were halted.

Another factor in Burbank production is the shooting of old wells, whose daily production has dropped to a low ebb. This was not mentioned in the department order. So lease owners, denied the chance to complete new wells turned attention to increasing the output of old ones, with sufficient success that shooting is a common practice in the older parts of the field.

The present daily output of 80,200 barrels is coming from 665 wells, an average of 120 barrels to the well.

October 5 Date of Order

The request for the abrogation of the order came almost a month after it had been asked by the committee through a resolution to the Secretary of the Interior. September 25, the Osage shut down was asked. October 5, the order was issued coming to Osage producers through J. George Wright, Superintendent of the Osage Agency at Pawhuska, who received it from Charles H. Burke, Commissioner of Indian Affairs.

Since then the Central Committee on Shut Down and Storage has found itself the kernel between two mill stones. Osage producers contended the order was unfair, as it placed most all the burden of restricted oil production in the Mid-Continent field on a few concerns. Osage operators further asked why the committee had not carried its whole program through by asking the Corporation Commission of the state of Oklahoma to halt all completions, other than necessary offsets.

Operators with holdings outside of Osage County and especially Burbank, favored the action, of course, since it bettered their positions. So from this quarter the committee was urged, not formally, to stand by its guns.

"Stood by Guns"

For two weeks the committee "stood by its guns," although there was evidence of some jig time steps on the deck. One resolution was prepared by the committee, asking for the vacation of the order. But M. M. Doan, out of the city on business, refused to sanction the move, contending that another mass meeting should be called to either approve the action of the committee or give it other instructions.

This resolution, prepared but never sent to the Secretary of the Interior, was based on a plea that conditions of the oil market had so changed for the better that the shut down at Burbank was no longer necessary.

After returning to Tulsa, Chairman Doan called the committee together. The result was another resolution, in which it was stated that the order, since it applied only to the Osage, was unfair, in the opinion of the committee, as it forced a small group of oil producers to do what the whole industry should do.

The resolution asks that the Osage be placed on a footing similar to that of Indian lands of other Oklahoma tribes. This order from the Commissioner of Indian affairs permits agency superintendents to extend the time of drilling contracts, where it is desired by lease holders and in cases where oil bearing formations will not be harmed by delay.

The Resolution

The resolution follows:

"Whereas, on the 25th day of September, 1922, the shutdown committee of the Mid-Continent oil producers, acting upon a communication received from the superintendent of the Osage Indian agency, and after consideration of conditions in the oil producing fields, and the crude oil markets of the United States did pass a resolution which was forwarded to the said superintendent and by him to the department of the interior in which resolution it was recited that the price of crude oil had been reduced to a point below cost of production and considerably below the intrinsic value thereof and there was an excess of oil being produced, thus

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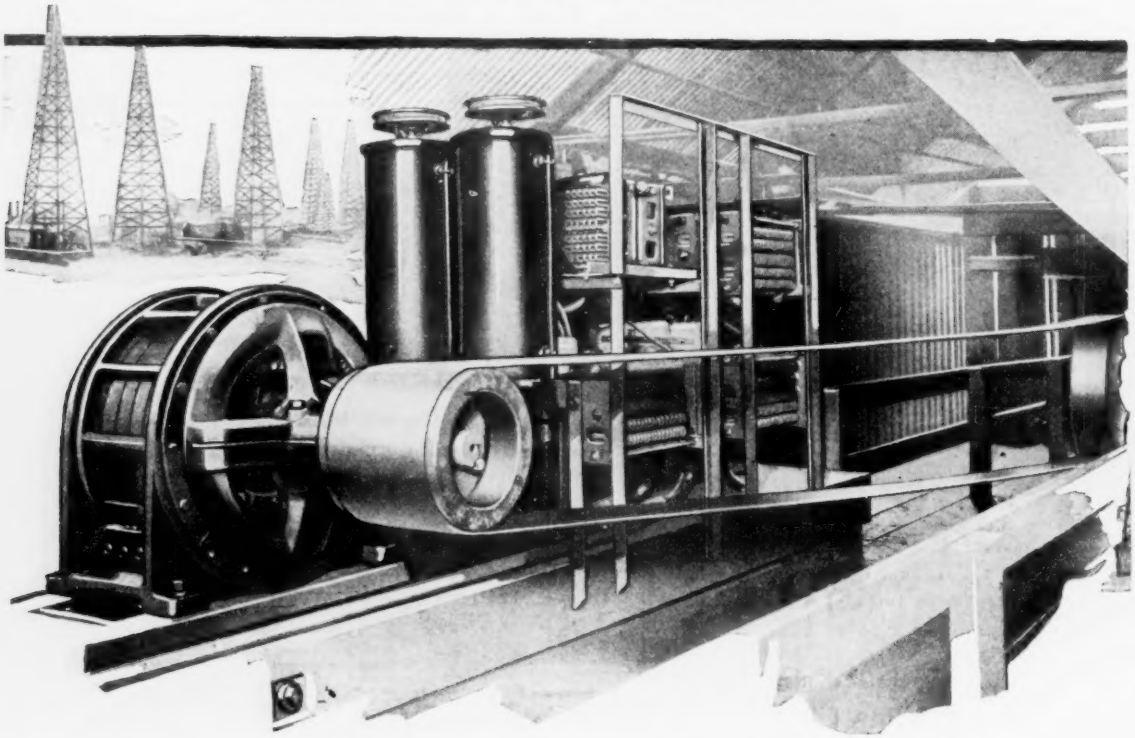

The "full drop" effect which is essentially a part of cable tool drilling, is accomplished to the highest degree with the G-E drilling motor.

In a number of fields operators are applying electricity to their drilling problems just as they have to other industrial problems, and are finding that G-E motors save in the oil fields just as they save elsewhere.

We have a considerable amount of information available regarding the work done by drilling motors and we will be pleased to forward it on request.

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Two Changes Made In Humble Officials

HOUSTON, TEXAS, Oct. 25.—R. S. Sterling, president of the Humble Oil and Refining Company since its organization in 1911 as a small company, on Monday at a regular meeting of the board of directors of the company at Houston headquarters was promoted to the position of chairman of the board. W. S. Farish, who has been vice president, was elected president to succeed Mr. Sterling. Announcement to this effect was made by Mr. Sterling Tuesday.

Mr. Sterling was the organizer of the Humble Oil and Refining Company back in 1911 with an original capital stock of $150,000. He has continued to serve as president of the company since that time and he has seen his organization grow into a corporation with a capitalization of $25,000,000. The company has production and holdings in several states, a large refinery on the Houston Ship Channel, pipe lines, and is fast building a large selling organization.

Mr. Farish came with the Humble about five years ago when the company was expanded to take in the holdings of Blaffer and Farish, H. C. Weiss, W. W. Fondren and others. He served on the Petroleum War Service Board during the war and has had a very active part in the management of the company. Mr. Farish is deservedly popular with the employes of the company, and he has been kept busy receiving the congratulations of employes of the company in addition to his many friends in Houston and in the industry.

Mr. Sterling's election to the chairmanship of the board does not mean that he will abate his active interest in the company's affairs, but that many of the duties which he has performed as president will be passed to Mr. Farish. Rumors that Mr. Sterling had sold out his interest in the Humble Oil and Refining Company were characterized as unfounded by Mr. Sterling some time ago, and he made it plain Tuesday morning that his election to the chairmanship of the board was the logical sequence of his plans announced to the directors four years ago when the company began its second big expansion program and officials of the Standard Oil Company of New Jersey became interested to the extent of half the stock of the company.

Nitro and Dynamite And Hole Is Straight

Amarillo, Texas, Oct. 21.—W. A. (Tex) Thornton is a well shooter by profession, but between times he puts out burning gas wells with nitro, but recently he straightened a crooked hole. Of course he was in the World War and he took part in the big doin's with the Canadians, and in addition to his other accomplishments he is a practical oil man.

But for his latest job—a success. At 2452-2460 feet, the Amarillo Oil Company's No. 3 Bivins, section 15, block M-20, G. & M. Survey, Potter County, Texas, got a crooked hole in a very hard igneous formation. Six weeks time and several thousand dollars had been spent by Caldwell & McClintock, contractors, in an effort to straighten. "Tex" did this job in short order with five quarts of nitroglycerine and 111 sticks of 80 per cent dynamite. The hole is straight and clean and tools work without any trouble whatever.

Thornton has gained considerable of a reputation in this district for putting out burning gas wells with nitro after other methods fail.

THREE OIL PRODUCERS FOR PIONEER DISTRICT

Fort Worth, Texas, Oct. 26.—Three oil producers were scored in the Pioneer district of Eastland County during the past week with a combined initial production of 400 barrels.

The Invincible Oil Corporation's Nelson 3 came in making 100 barrels from 15 feet of pay from a total depth of 2500 feet, while 150 barrel producers were completed by each the McCamey, Sherrin et al's Armstrong 7 and States Oil Corporation's Smith 4.

Failure to pay city taxes resulted in several wells being sold by public auction last week in Breckenridge, Stephens County, at prices ranging from $100 to $290. These wells were drilled by promotion companies and unit syndicates on town lots with very poor success, and contained casing when sold.

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constituting an economic waste and creating at least a temporary congestion which could only be relieved by a curtailment of drilling operations, and

"Whereas, in order to remedy this condition and to assist the committee in bringing about as nearly a universal shutdown as possible, the said resolution did express the belief that the secretary of the interior by exercising the powers that the committee then believed did reside in him, could bring about a shut down of drilling operations not only in the Osage nation, but upon restricted Indian lands and upon the public lands of the United States generally, including the Tea Pot Dome and the fields of Wyoming and California, and

"Whereas, the said resolution did ask the secretary of the interior to exercise that authority as a part and parcel of a nation-wide shutdown movement looking to the stabilization of the oil producing industry, and

"Whereas, the said secretary of the interior did, on the 5th day of October, 1922, promulgate an order requiring a shutdown in the Osage nation except as to necessary offset wells, but at the same time and in response to subsequent communications of this committee did inform this committee that there was no authority residing in the government by which a compulsory shutdown could be brought about on other Indian lands or government lands elsewhere.

"Now, Therefore, it having been determined by the department of the interior that it has no authority to promulgate a compulsory order of shutdown covering any government or Indian lands other than those known as the Osage nation.

"Be It Resolved, that this committee believes that such an order is unfair to the operators within that limited area and we, therefore, respectfully submit and recommend to the secretary that since he is unable to issue a compulsory order covering all other government or Indian lands especially those in Wyoming, that the order insofar as it relates to the compulsory shutdown be vacated or suspended and that the department apply the same policy to the Osage nation as has been applied to the lands of the Five Civilized Tribes and other government or Indian lands under its jurisdiction and that it continue to use its best efforts to induce and assist operators in curtailing new development wherever possible.

"CENTRAL COMMITTEE ON SHUTDOWN AND STORAGE

"By M. M. Doan, chairman; W. H. Gray, W. G. Skelly, Burt H. Collins, H. N. Cole."

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Some of the Old Oil Fields Come Back

Geological survey finds many evidences of output being held up or increased

WASHINGTON, Oct. 23.—Some oil fields whose dwindling output seems to show that they must soon be abandoned may yield more oil in the future than in the past and others that seem dead are likely to be resurrected, according to K. C. Heald, of the United States Geological Survey, Department of the Interior, who finds abundant evidence to support these statements in recent discoveries and developments, as well as in work done by the Survey.

Resuscitation of the Tidioute Field

Only a short time ago most oil operators looked upon the old Tidioute field, in Warren County, Pa., as a field with little present and less future importance. Such wells as were being pumped yielded insignificant amounts of oil, and the general opinion was that the field had been so thoroughly drilled that further exploration would be futile. One man, however, refusing to share the general opinion, clung obstinately to the idea that the early drilling had not conclusively proved that the deep sands below the beds from which the wells were producing were barren of oil. Awaiting his opportunity he drilled a deep well, disregarding both skepticism and ridicule, and on August 5, 1922, when his drill bit into the Queen sand, 770 feet below the sand which had up to that time yielded most of the oil in the district, he obtained a flow of oil that silenced his critics and restored to importance one of the oldest producing fields in Pennsylvania. This new well in an old field yielded 500 barrels a day and was not only the best well drilled in the district, but one of the most productive wells drilled in recent years in the State.

Gusher in Old Unity Field.

This successful well in the Tidioute field was still fresh in the minds of the operators in Pennsylvania when another old field in the State "came back" with an even larger producer. This well, in the Unity field, Allegheny County, which gushed at the rate of more than 1,400 barrels a day and took the title of "the biggest well of the year in Pennsylvania," again proved that drilling in old fields is likely to pay if it is intelligently directed.

Many New Productive Wells

Productive wells in old fields are not so uncommon as the publicity given the examples cited above might seem to indicate. In many a field two or more "booms" have followed the discovery either of new oil-bearing beds below the ones first developed or of an extension of the field in some direction where the dry holes that bordered the area that was originally productive were due to some local cementation or to a lack of porosity or some other condition in the oil sand and did not mark the true edge of the pool. The surprising thing is not that these discoveries are made but that they have led to so little drilling in search of new sands and of extensions of pools in fields where production started many years ago and that geologists so generally devote their time to a hunt for new producing areas and neglect so much the work that would lead to the complete development of the older fields.

New Wells in Western Fields.

New discoveries in old fields are by no means limited to the Appalachian oil fields. In the Mid-Continent fields more than one pool that was apparently nearing extinction has been brought back to its original productivity by some operator who refused to join in the belief that it had been exhausted, or by some newcomer who did not share the pessimism regarding the future of the pool that the failure of test wells had brought to the older operators. A striking example is the Electra pool of northern Texas, which during the last year has gained a place among the more productive fields of Texas after years of insignificant production. Pools in eastern Oklahoma have been rejuvenated as one deep sand after another has been discovered. The old fields of eastern Kansas have been repeatedly extended during the last few years, largely through the efforts of optimistic geologists and operators whose study of the region had convinced them that it had not been thoroughly explored.

Help of Geologist is Essential.

A good rule for those who look for new productive areas in old fields is that the older the field the better the chance that some oil has been overlooked. Twenty years ago operators were not so skillful as they are today, and they were also much quicker to believe that a pool had been completely drilled up or an area condemned than they are today. Also, and perhaps most important of all, they did not then have the advantage of the intensive application of geology to the discovery and development of oil that has contributed so much to the discovery of new pools, particularly in the Mid-Continent, Rocky Mountain, and California fields, during the past five years. It may be confidently predicted that as new pools become scarcer and harder and more expensive to find, oil operators will call upon geologists more and more to study intensively the old pools, either those that have been abandoned or those that produce only small quantities of oil, and that the studies will result in the discovery of oil in territory that is now looked upon by most oil men as almost worthless.

Geologic Evidence is First Requisite of Success.

A belief that many old oil fields are under-developed does not mean that random drilling in them is justifiable, any more than random drilling without geologic advice in wildcat areas is justifiable. The man who makes a drilling location merely because it is near old producing wells and depends on his luck to guide him to the right spot to discover an extension of the field, or one who drills in an old pool to find a new and deeper sand merely because of a "hunch" he may have that it is there, has all the odds against him, and his chances for success are slight. Such operations are as senseless and ill-considered as it would be to purchase a second-hand automobile without knowing anything about its appearance, condition, or the distance it had run. There is little more common sense in drilling without first making a careful study of geological conditions than there is in laying a pipe line to a drilling well before it is known whether or not the well will find oil. Haphazard drilling in old fields is particularly foolish and unjustifiable, for evidence is almost always available to tell whether or not there is a chance for new production, and facts can almost always be found to show where drilling would be most advisable.

Logs of Deep Wells are Valuable

In most districts where oil has been produced for a number of years a few scattered wells have been drilled deep. The records of these wells, combined with a study of the regional geology, and particularly of the geologic history, will tell whether or not there are formations below the producing beds which may be a source of oil and whether they include sands or other porous beds. Study of the geologic structure with the aid of well records will show the location of anticlines that may have formed traps for oil in the deep-lying beds.

Use of Diamond Drill will Help Exploration.

The diamond drill, which is being used more and more in the search for oil, should be particularly helpful in extending oil pools, for the core that it yields will reveal the exact character of the beds it penetrates. If the sand in a dry edge well is "tight," containing lime or other cementing material, it is reasonable to hope that the dry well no more indicates the edge of the pool than a knot hole indicates where the edge of a plank may be, so that drilling beyond it, outside the supposed limits of the pool, is justifiable.

Los Angeles, Calif., Oct. 25.—Standard Oil Company completed another record gusher well at Santa Fe Springs for 5,000 barrels a day. It is South Whittier Community No. 2. The No. 4 on same lease is biggest well in west, making 6,500 barrels. Both wells making light oil. Santa Fe Springs production has jumped to nearly 70,000 barrels a day.

Oil City, Pa., Oct. 23.—Theodore R. Westgate, manager of the American Oil Works at Titusville, died there last week. He was formerly a director of the Producers and Refiners Oil Co. and a director of the Pure Oil Co. He was a witness for the government in the dissolution of the Standard Oil Co.

El Dorado, Ark., Oct. 25.—The Arkansas Natural Gas Co.'s No. 1 Laney, 31-15-15, has been completed in the Smackover field for about 3000 barrels at the usual depth close to 2000 feet.

Tulsa, Okla., Oct. 20.—E. E. Schock of St. Louis, president of Indiahoma Refining Company; and his three sons, W. O. of St. Louis and J. J. and Dave of Okmulgee were here this week.

Red River Receivership Area Produced $10,500,000 Worth Oil

WASHINGTON, D. C., Oct. 23.—Nearly $10,500,000 in revenue has been derived from the sale of oil produced from lands under receivership in the Red River district, according to the ninth report of Frederick A. DeLano, receiver, which has just been submitted to the supreme court.

The actual revenue from April 1, 1920, when the receivership was inaugurated, to September 30, 1922, was $10,400,933, of which $8,450,758 was the operating claimants proportion, of thirteen-sixteenths and $14,825 were expenses of operations of river-bed wells during the period prior to May 16, 1920.

Expenses of $1,502,157 were incurred by the receiver subsequent to that date, and $4,581,725 was paid to operators in patented lands of the flood plain under an order of June 7, 1920.

Development work by the receiver subsequent to May 17, 1920, was $724,308, and $300,115 was refunded to operators of river-bed wells for the cost of drilling wells from the date of commencement of wells to May 16, 1920.

According to the report, Mr. DeLano now has on hand $3,288,168, or 30.5 per cent of the total receivership operations covering the two and one-half years. Of this, $2,800,000 are invested in treasury certificates, the remainder being cash in bank.

Nearly one billion feet of natural gas has been produced in the receivership area during the receivership period. Since the receiver took over the property, the average daily production of oil has declined markedly. The September production averaging 2,294 barrels against a daily average of 5,473 barrels for the period from April 1920 to March 1921.

In submitting his report Mr. DeLano declared there is little to be said except that nothing unusual happened since the submission of the preceeding report. A hot and very dry summer dried up the river and for two or three months there has been no running surface water and there has also been some difficulty encountered in the drifting of the fine river-bed sand which made the successful operation of pumping machinery at times very difficult.

A. J. Carr Quits Lucey; Manages Own Concern

A. J. Carr, for several years vice-president and general manager for the Lucey Manufacturing Corporation of Texas, has resigned his connection with that company to devote his full time as president and general manager of the Houston Pump & Supply Company, Houston, a corporation which he organized three years ago and which is engaged in manufacturing pumping equipment and supplies.

Mr. Carr is one of the best known supply men in the Southwest, and his experience in the supply business extends over several sections of the United States and into foreign countries, as well.

He first became identified with the Lucey organization about ten years ago in California, having been in the oil business and the railroad business previous to that. He spent one year in Russia, Roumania and other foreign countries for the Lucey company, later was in the Pittsburgh office, coming from there to Houston to become vice-president and general manager of the Lucey Manufacturing Corporation of Texas.

"A. J." or "Arthur" as he is known to his friends, has not confined his activities to the office or manufacturing branch of the supply business but has spent much of his time in the fields, and has a wide range of field acquaintance.

About three years ago, seeing the possibilities of the pumping equipment business Mr. Carr and some of his friends organized the Houston Pump & Supply Company, which has its manufacturing plant near the plant of the Lucey Manufacturing Corporation in Houston. The new plant grew in business and magnitude until it is now two or three times as big as it was when it was first started.

Mr. Carr's full time and energies will now be devoted to this business which is already selling its manufactured product all over the United States, and in his new work he has a host of friends who wish him well.

A. J. CARR

Houston, Texas, Oct. 25.—J. Antonio Ostos of Tampico, whose grandfather many years ago owned practically all of the land between Tampico and Vera Cruz in Mexico, was in Houston this week. Senor Ostos is at present a consulting engineer, but in the past few years has devoted most of his time to oil field work, being employed by the Mexican Gulf Oil Company, Foundation Company and others. He met his wife at New Orleans who had been visiting in New York.

Florida's 1920 Mineral Production Biggest Yet

TALLAHASSE, FLA., Oct. 21.—The Fourteenth Annual Report of the Florida Geological Survey is now being generally distributed to interested citizens throughout the State. The first thirty-two pages are devoted to the administrative report and to the statistics of mineral production for 1919 and 1920. It is of real interest to note that Florida's mineral production for the latter year amounted to $23,435,804. This is the largest mineral production ever recorded for the State.

The possibility of finding oil in Florida has been given a great deal of study by the Geological Survey and the present report is devoted mainly to a discussion of this subject. To summarize briefly, the report mentions the various wells that have been drilled as tests for oil and contains an index map giving the location of each. This is followed by a discussion of the properties of petroleum and gas, their original and accumulation, as well as the various geological structures known to be favorable to their accumulation in commercial quantity. The geology of the State is then taken up and the nature, distribution, thickness and peculiar characteristics of our formations are outlined. In order to facilitate discussion, the State is divided into fourteen more or less natural geologic subdivisions, for each of which the formation and drilling conditions are comparatively uniform.

Following this the sixty-three counties of the State are taken up in alphabetical order and the geology of each, supplemented by data from such deep wells as have been drilled, is presented. The report contains many descriptive logs of wells and a correlation table giving the various formations of the coastal-plain states and indicating by a star those known to have produced oil.

Accompanying the report is a revised geologic map of Florida, which indicates the distribution of the several geologic formations. In addition to showing the geology, the map is up-to-date with respect to new counties, railroads, canals and forest reservations. The latter is quite an added feature since the locations of the two National Forests and the Royal Palm State Park, have not appeared on maps heretofore published by the State.

The reports of the Geological Survey are published by the State for general distribution and may be obtained free by addressing the State Geologist, Tallahassee, Florida. Postage should accompany requests from those living outside the State.

TWO SMALL PRODUCERS ARE COMPLETED AT HUMBLE

Humble, Texas, Oct. 25.—The Texas Company, Houston, Texas completed its Landslide 237, at Humble, Texas, this morning for 250 barrels at 2630 feet.

This well was a workover, was milled out 1900 feet, sidetracked at 2330 feet drilled to 2620 feet and sidetracked again to 2630 feet where the pay was found.

The Southern Petroleum Company, Houston, Texas, which has started operations again on the Landslide 100-acre tract, completed its Landslide 37 yesterday for 100 barrels at 1500 feet. This company expects to put down a number of wells on this lease.

Lease Storage in Oklahoma. Producers in this part of the Mid-Continent field turn to tankage to offset the low price of crude. Many tanks have been bought for erection on leases. More fields like this are assured. Photo by Clarence Jack, Tulsa

Fuel Oil Floating on Waters for A Time Is Not a Fire Hazard

WASHINGTON, D. C., Oct. 25.—Fuel oil which has floated on the surface of harbor waters for any considerable period does not of itself constitute a fire menace, according to a report of a special committee on fuel oil on water and docks, piers and wharves, oppointed by the Railway Fire Protection Association to investigate the question. However, it is declared, the question of whether fuel oil on harbor waters will serve as a communicating agent for fire between piers has not yet been determined, but experiments are to be undertaken to discover just what the fire menace of such oil is.

Results of the committee's preliminary investigations were submitted to the association last week during its annual convention in Washington. The appointment of the committee was the result of a discussion of the oil fire menace at the last annual meeting, which was brought up after experimental work had been carried on by the New York Central Railroad, which uses considerable water-front property in the vicinity of New York.

"The substitution of fuel oil for coal on marine craft, while introducing economy and convenience of operation, has entailed certain physical drawbacks," the committee pointed out in its report. "The entrance of sea water through the seams of the vessel so that it reaches the fuel oil supply makes it imperative that near the end of a voyage the emulsion of oil and water left in the tanks must be removed prior to taking on fresh oil supply. While it may be possible to pass the emulsion through rectification processes so as retrieve the fuel, up to this time owners and operators of vessels have found it easier to pump out this emulsion and waste it on the adjacent water surface.

"Eventually, the oil sludge finds its way to harbor waters, if, in fact it is not pumped direct there by the boat while lying at its anchorage. Federal, State and local authorities impose penalties for violation of laws forbidding this practice. Until recently, however, violation of such laws were very common. With an active campaign on the part of the authorities in the last year or two, whereby owners and operators were subjected to heavy fines, the nuisance has been lessened to a very material extent. In New York harbor waters sludge oil may now be found only at certain locations of limited area. Other ports report similar deterrent effect due to aggressive campaigns against the evil. It must be noted, however, that oil once discharged on harbor waters or adjacent thereto continues to float indefinitely as it is not disposed of by the action of the elements. For this reason, if the practice of discharging it from boats is not stopped, the amount of oil in any harbor will continue to increase.

"Oil that has floated on water for a considerable time has absorbed water to as much as 25 per cent. so that it has become up to that time a real emulsion. The volatile content of such oil has been thoroughly dissipated due to the thorough aeration possible in thin layers. Physical tests conducted in the laboratory have shown that while the oil originally had flash point from 400 to 500 degrees Fahrenheit, the practical result in testing the sludge has been that it is necessary to first evaporate the water of the emulsion before the residue would even ignite. This process of evaporation requires of itself a very considerable mass of heat units."

During the past year the committee made arrangements to conduct a series of experimental tests.

SEVERAL ELECTRA OPERATORS RETURN TO 8-HOUR DAY

Wichita Falls, Texas, Oct. 26.—Several of the major operators in the South Electra field are returning to the 8-hour work day from the 12-hour shift on drilling crews because of the efficiency reported to be obtained from the men with shorter hours.

The reduction of working hours is being made voluntarily by those that are putting it into effect and no organized effort has been waged to make it universal.

London, Eng., Oct. 19.—Mexican Eagle Oil Company directors have declared initial dividend of 5s. 9½d. for each 10 shares on first preferred stock, payable October 31 in London.

Batson Well Makes Big Producer at 2500 Feet

Houston, Texas, Oct. 28.—The Kirby Petroleum Company early Wednesday morning drilled in Millhome Strip 10 at Batson for a 500-barrel producer at 2500 feet, making pipe line oil of 29 gravity. The new producer is located on the west side of the Batson field and is the largest well to be completed in this old district in several years.

At Hull the Humble Oil and Refining Company has another good shallow well in Marshall 1 on the west side of the dome. The well came in Wednesday for an estimated flow of 4000 barrels from around 1100 feet.

The same company's deep test on the Isenhour lease at Goose Creek bailed dry at 4830 feet and has been abandoned. The well is the company's 1-B.

C. A. Young Manager of Lucey Corp. of Texas

Houston, Texas, Oct. 25.—C. A. Young a vice-president of the Lucey Manufacturing Corporation of New York, Tennessee and Texas, who has for some time been at Chattanooga in charge of sales for the company, is now general manager of the Lucey Manufacturing Corporation of Texas, with headquarters at Houston, succeeding A. J. Carr who resigned last week.

Mr. Young has been in the supply business for several years. He pioneered for the Lucey organization in Russia and Roumania, and during the war and after the war, was a member of the relief board in Europe as assistant to Herbert Hoover, succeeding Captain F. J. Lucey to that work. Mr. Young is well known throughout the oil industry in the United States and foreign oil fields.

The sales office of the Lucey Manufacturing Corporation at Houston has been moved from its former quarters in the Humble building, to the plant where it is now located in commodious quarters, a closer co-ordination of sales, delivery and manufacturing effort being accomplished by the move.

Taking Cores in Rotary Drilling Operations

Drillers are becoming more expert, especially in new fields—Popular in the Gulf Coast

*By John R. Suman**

During the past few years the taking of cores in drilling with rotary equipment has been perfected to a remarkable degree in the Gulf Coast fields of Texas and Louisiana. Taking of cores is becoming quite a common thing, especially in the newer fields, and drillers are becoming expert in this work.

The writer has seen cores five to eight feet long taken with great ease in wells as deep as 4500 feet. Coring is doing much to remove the prejudice which so many petroleum engineers seem to have against the use of rotary drilling equipment for exploratory work. Some operators are now claiming that when used with a reasonable amount of coring the rotary system is even more satisfactory than cable tools for exploring in certain territory. A case has recently been pointed out in the South Electra field of North Texas, where producing oil sands, passed over by cable-tool drillers, are being brought in with rotary equipment.

It seems that in this particular territory the sands are rather thin. Cable-tool drilling was carried on for the most part in a wet hole and the red mud encountered in drilling caved into the hole very badly, so that the cuttings showed mostly red mud and the driller, thinking that the sand did not amount to anything, carried his water string through the sand. The later operators, drilling into the sand with rotary equipment and coring it, found that it was well worth testing. Wells producing from 50 to 500 barrels per day have resulted. The tables seem to be turning, in the old arguments against the rotary.

Coring can be carried on just as quickly and with a great deal more safety with rotary drilling equipment than with regular core-drilling machinery when drilling in the soft and unconsolidated formations of the Gulf Coastal plain. The writer is very doubtful as to the possibilities of adapting regular core-drilling machines to Gulf Coast conditions.

In working on the problem of taking cores when drilling by the rotary system in this territory, some very ingenious devices have been perfected. These group themselves naturally into the non-reaming and reaming types.

The basket, or toothed, barrel, a non-reaming type barrel, is made from an ordinary piece of drill pipe by cutting teeth in one end. The teeth should be so cut that when they are bent together in effecting closure there will be no wide apertures through which soft sands can escape. The number of teeth depends on the size of the barrel and the type of formation to be cored. The most common size of barrel is the 4-inch, but for deep work the 3-inch barrel is often used. The 4-inch barrel will have five or six sharp teeth for coring in soft sands or four flat teeth for coring in hard formations. Some drillers, when coring anhydrite or limestone, use only a single notch cut in the barrel. The barrels with the teeth are usually annealed before running and are usually three to five feet long.

Use of Basket-Type Barrel

The common procedure in running this type of barrel in soft formations is to lower it on the drill stem into the hole until the bottom of the barrel is about two feet off bottom. The swivel is then connected and the mud pump is operated for a few minutes until all material that may have encountered the drill stem during its descent is pumped out. With the pump still working, the drill stem is lowered to within a few inches of the bottom. The pump is stopped and the core barrel is rotated downward until three or four feet of core have been taken. While lowering the drill stem, the driller is careful not to put too much weight on the barrel; when a sufficient amount of core has been taken, he allows the full weight of the stem to rest on the barrel, while rotating, in order to effect closure. He may raise the stem and drop it a few inches to assist in the closing of the bottom of the barrel. If coring in rock, the driller may unscrew the swivel and prod in some pieces of gravel, glass or cast iron, and pump them down around the core. By raising the stem and lowering it these pieces get jammed around the core and hold it until it is removed from the hole.

Advantages and Disadvantages

This type of core barrel is simply screwed onto the end of the drill stem, no back pressure valve being used. A 5/8-inch hole, called a "weep" hole, is usually bored in the top of the barrel, which permits the drill mud to escape from the stem as it is removed from the hole. A tool company of Houston is making a special collar to be used in connecting the core barrel to the drill stem. This collar is about 18 inches long and is made from a drop forging with a ground seat

(Continued on Page 72)

*Assistant Manager, Rio Bravo Oil Company and East Coast Oil Company, S. A., Houston, Texas, published in Mining and Metallurgy.

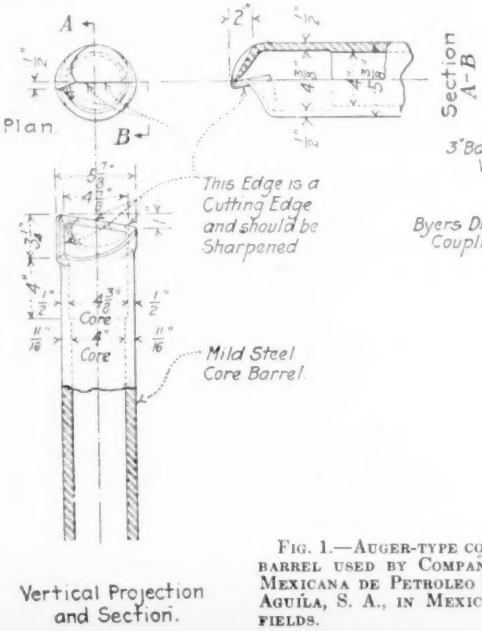


FIG. 1.—AUGER-TYPE CORE BARREL USED BY COMPAÑIA MEXICANA DE PETROLEO EL AGUILA, S. A., IN MEXICAN FIELDS.

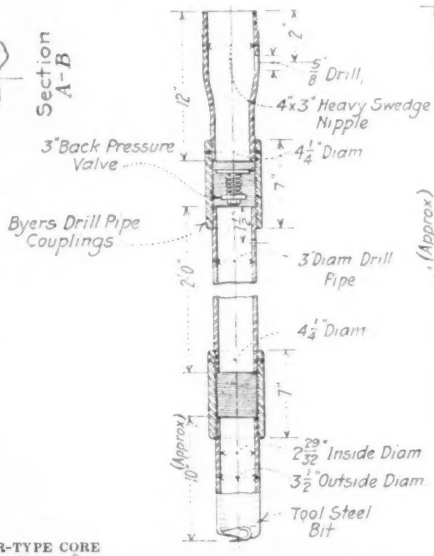


FIG. 2.—AUGER-TYPE CORE BARREL FOR TAKING SAMPLES OF SOFT FORMATIONS.

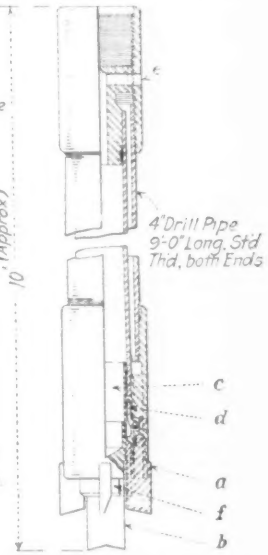


FIG. 3.—REED AND HEPLER CORING TOOL.

Something Is Fundamentally Wrong

William N. Davis tells Mid-Continent operators that real action is needed to save big trouble

TULSA, OKLA., Oct. 24.—Speaking before the Oklahoma-Kansas division of the Mid-Continent Oil and Gas Association at the annual banquet here Oct. 18, Wm. N. Davis, president of the organization, dwelt at length on the problems against which the petroleum industry is now battering.

His speech follows:

"It appears that the present shut down movement, like all of its predecessors, has met with a very limited success because it has seemed impossible to secure a discontinuance of drilling where the operators are getting large wells; which means that they will continue to drill so long as there is an apparent profit without regard to the general welfare of the industry. Indeed it seems that they will continue to drill where the chances of profit are very slight rather than that their neighbors might perhaps secure a little more oil.

Competition Too Keen

"There is something fundamentally wrong and unsound when it is possible for such a situation to continue in such a great industry, and as I have said, it is the unrestrained character of the competition. By their continued active drilling producers have in the past and probably will again cause further reductions in price until what appeared to be safely profitable investment two or three months ago will show a balance on the wrong side, while to have refrained from drilling would have hastened the return to equilibrium and a fair and profitable price for crude. The unnecessary production of oil

WM. N. DAVIS

when the market is glutted and the price below cost to the great mass of operators and therefore below intrinsic worth is economic waste of one of the most valuable of the world's natural resources; and one which, however much we may deprecate and condemn the sensational predictions of its early exhaustion, we must, nevertheless, admit is limited in its ultimate supply and will sometime fall short of the world's demand; eventually reaching exhaustion; and that waste must be paid for by future generations if not by this.

"The public press recently carried the information that operators in Salt Creek, Wyoming, have agreed to shut down all drilling by December 1 and to remain in that condition for five months or until May 1. I do not know how such action was brought about but if a similar movement could be effected here in the Mid-Continent field it would restore equilibrium to the industry throughout the entire United States."

Retail Prices Suffer

Due to the low crude oil prices retail prices of refined products have fallen to levels below their intrinsic worth, the oil association's president declared. This situation has forced many small refiners out of activity, while the buying public is ignorant of the conditions under which their products are produced. To bring about an equilibrium Mr. Davis talked of the necessity of higher retail prices in the future. According to his remarks a proper relationship between the cost of the raw product and the value of its use does not in reality exist.

"In my opinion consumers of petroleum products in the United States have never paid the prices which they should, and

(Continued on Page 78)

Restoring Pressure to New York Oil Sands

New York operators are told of results accomplished following partial survey last summer

BOLIVAR, N. Y., Oct. 21.—Following is the paper that was read by C. A. Hartnagel, assistant state geologist, New York, before the New York State Producers Association at its meeting here September 27, indicating to the producers some of the results of a partial survey of the New York fields with reference to restoring pressure to the sands:

"One year ago, the New York State Oil Producers Association passed a resolution, requesting the Director of the New York State Geologic Survey, that a geologic survey be made of the southwestern New York oil fields. As a result of this action a request was made by the State Geologist to the State Board of Estimate and Control, that an appropriation of $5000 be made available for this purpose. Of the amount asked for but one fifth or $1000 was granted by the Legislature for the survey. Fortunately, additional sums became available so that a good start was made, and it is expected that larger amounts will be granted to complete the survey during the coming year.

Singular Undertaking.

"To those not familiar with the oil situation in southwestern New York, the proposed survey seemed to be a rather singular undertaking. In most fields a geologic survey is most needed in their early history. Why then, it was asked, is it desirable that a survey be made of the New York oil fields? Are not these fields more than 40 years old and practically exhausted? With more than 14,000 wells still producing oil, to say nothing of the number of dry holes that have been drilled and those that have been abandoned on account of being no longer productive, is there still anything about the structure that is yet unknown? In reply to these questions we must answer: There is still much about the structure that remains to be determined. In a region where structures such as domes and anticlines are well developed they are easily detected. In a region like the New York oil fields the structures are so simple that they are actually difficult to determine. These simple structures are important and should be carefully studied. As to the exhaustion of the field, no one who knows anything about the local conditions will admit that the field is exhausted. This, in spite of the fact that five or ten years ago many of us did make this admission, but we have changed our minds and had good reasons for so doing. As to the age of the fields all of us must admit that most of them are more than 40 years old, but some are inclined to say 40 years young.

Past Production of Oil.

"This has a bearing on the possible future production. Most of the operators claim that the future production will be larger than the amount that has been produced in the past. Let us for a moment consider past production.

"Satisfactory statistics of past produc-

(Continued on Page 80)

HI-SPEED
"TIME IS MONEY - SAVE IT"

Pumping Equipment Built for Speed, Production and Permanence, Constructed Especially to Meet the Specialized Needs of the Oil Fields—

THAT'S OUR SPECIALTY

Among the products manufactured in our Houston plant and now available to and at jobbers' stores throughout the country, are the following:

D.& B. California sand pump (in Mid-Continent and Gulf Coast fields)

"Hi-Speed" automatic tubing elevator, automatic in action, safe and speedy in operation.

"Hi-Speed" Casinghead Tubing Catcher, which saves use of one elevator, safe because eliminates danger of tubing loss while pulling out or going in hole.

Tubing Anchor, which safeguards from breakage of tubing under collar, due to vibration of swaying.

"Hi-Speed" Working Barrels—the name tells part of the story, but not all.

"Fondren Packer," a positive seal instead of a possible seal.

The above are part, but not all of the pumping equipment manufactured by us—and we have touched on only a few of the features of each product.

For details, both from purchase and jobbing standpoint, write

Houston Pump & Supply Co.

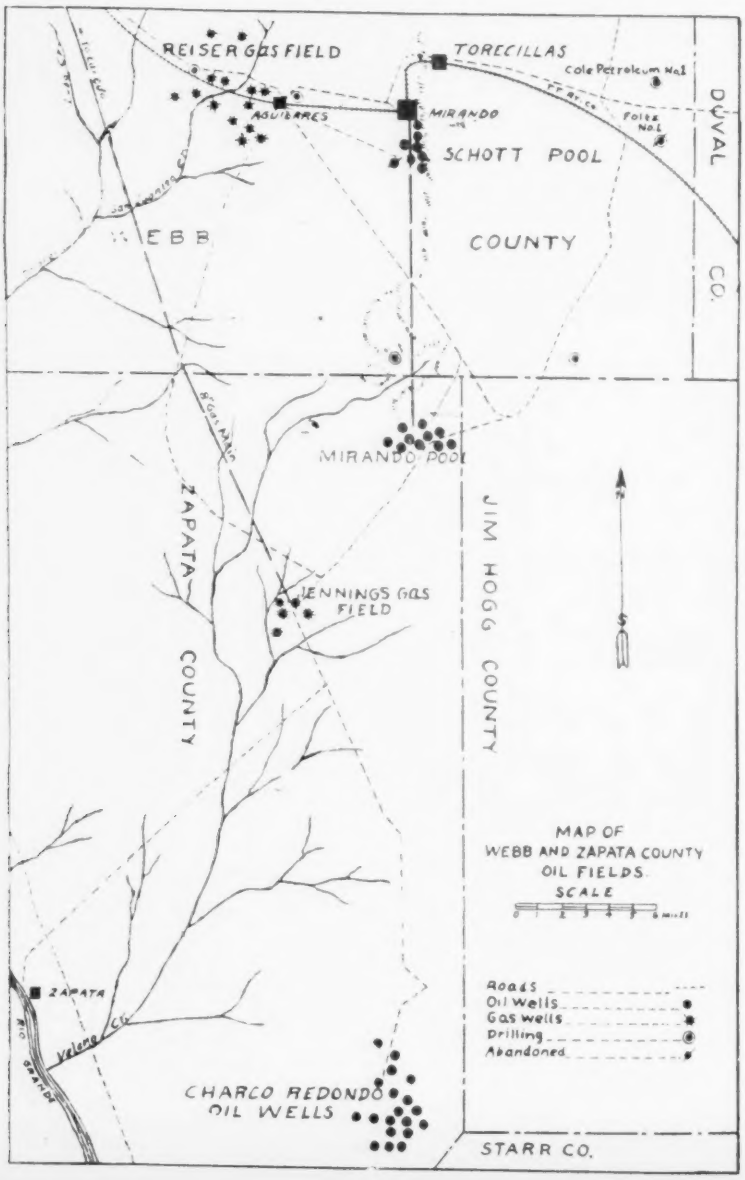
Houston, Texas **P. O. Box 1158**

Oil and Gas Fields of Laredo District

E. H. Sellards gives results of his investigations in Webb and Zapata Counties, Texas

By H. Sellards *

AUSTIN, TEXAS, Oct. 16.—At the present time oil or gas is being obtained from several localities in Webb and Zapata Counties. The localities include the Charco Redondo oil wells, Jennings gas pool, and Mirando oil pool in Zapata County, and the Reiser gas wells and Schott oil pool and the gas wells of the Carolina-Texas Oil Company in Webb County. Of these several localities, the Reiser field is the oldest as a commercial field, having been discovered in 1909, although previous to that time oil had been noted in shallow wells drilled for water at the Charco Redondo ranch. The following notes on the producing fields of these two counties are based on a reconnaisance of about ten days made in April and May, 1922.



Stratigraphic Geology

At the March meeting of the American Association of Petroleum Geologists, Dr. A. C. Trowbridge read a paper on the Coastal Plains formations in Texas, adjacent to the Rio Grande, which it is understood, will be published. Not wishing to anticipate in any way the results given in this paper by Trowbridge, the geology and stratigraphy of this area will be referred to at this time only in a very general way.

Immediately at Laredo and for a few miles to the east, the rocks exposed in the stream beds and rock cuts are chiefly sandstones, often glauconitic, probably representing the Cook Mountain formation. Next to the east and extending almost, if not quite, to Reiser, is a broad belt in which clays predominate, although some oyster shell beds are included. These clays represent the Yegua formation. About twenty-two miles east of Laredo (three miles west of Reiser) is found a belt of very sandy land which may possibly represent a remnant of the Fayette, or a sandy horizon in the Yegua. At Reiser and in a clay pit nearby, are seen clays and oyster shell beds not unlike those of the Yegua.

Next east of Reiser, near Aguilares, and extending thence north and south is a belt of country in which the land is in places sandy and in which there are occasional outcrops of a light-colored rock with a limited amount of sand. This rock, which in places is chiefly volcanic ash containing plant impressions, probably represents the Fayette formation. Next to the east is found a belt of clay land which widens in the northern part of Webb County and possibly represents the Frio formation.

About thirty-five miles east of Laredo is a prominent escarpment beyond which the land is level and slopes gradually to the east. The formation capping this escarpment is the Reynosa, which consists of caliche filled gravel and in places of caliche rock. The age of this formation is either Pleistocene or Pliocene. In the face of the escarpment, underneath the Reynosa capping, there is found in places a coarse sandstone which may be of Miocene age.

It is thus seen that the formations found at the surface ase chiefly those of the Eocene series, together with possibly limited Miocene exposures, and in the eastern part of these two coutries, the Reynosa limestone and gravels. Adjacent to the stream beds, of course, are Pleistocene and recent teracce deposits.

Regional Dip

The regional dip in this area is to the east. To the north and northeast of this area, the strike of both Eocene and Cretaceous formations is northeast-southwest, the dip being southeast. In the central

(Continued on Page 82)

*Notes on the oil and gas fields of Webb and Zapata Counties, Texas, prepared by Mr. Sellards, member Bureau of Economic Geology and Technology, division of Economic Geology, University of Texas, and published in University Bulletin No. 2230.

Higher Gravity Crude Is in Demand

Refiners are still in the market and spirit of optimism prevails

TULSA, OKLA., Oct. 25.—Refiners' demand for crude of good gravity in this field is holding up the market on free oil and pipe line companies apparently are getting enough to maintain contract deliveries without having to call on stocks to bring up the gravity specifications of their eastern and middle western connections. Such a state of events largely is responsible for the spirit of optimism which pervades market circles at this time of the year when ordinarily refinery runs would be slowing down and much fee oil would be offered the major purchasing agencies as a result of a slackening gasoline demand.

The Burbank pool in Oklahoma has felt the effects of the government's shutdown order and production reports for that field for the past week show a decline. In fact the whole state reports a slump of some 6000 barrels for the past seven-day period and indications are that next week will also witness a decline of several thousand barrels. However, now that the interior department has been asked to rescind their shutdown order future developments will hinge on the government's action in this matter and how soon thereafter the ban is lifted.

There has been very little change in the Kansas crude recovery and market conditions on light oil in that state always have been of a satisfactory sort, in that much of it is taken up by refiners within or near the more important pools.

The Teapot Dome scare has subsided and there is little to fear from that source for some time to come. That the wells which have been producing in the Wyoming naval reservation have pierced a shale formation is generally accepted and deeper drilling must be undertaken before a large flush recovery will have been attained. Then, too, pipe line facilities are not at hand and what crude is brought above ground is taken to storage and from thence to railroad connections some distance removed.

Refinery runs in the Mid-Continent are not showing the decline that was at first anticipated for this time of the year and there is much gasoline going to storage at the larger plants in this field. Fuel oil and kerosene keeps moving in good shape and the market on these burning oils is holding up well. The lower grades of motor fuel are cheapening and the demand is showing the effects of cooler weather throughout the Middle West and Southwest. However, whether this condition will bring about any immediate increase in the buying of higher gravity grades is problematical as the great majority of the jobbers in Standard of Indiana territory sell the lower grades and have built up their business on this basis in competition to Standard marketing tactics. So that the sale of higher gravity motor fuel will not materially improve, at least for the time being, this market.

The large packers who have been in the market for fuel oil since the coal strike assumed such alarming proportions now have gone back to coal and it is understood that some of them cancelled with refiners on contracts which in some instances called for a price as low as 85 cents a barrel. Morris and Company, Swift and Armour are now burning coal and are not seeking new supplies of fuel oil. Despite this condition the fuel market is holding around $1.05 and refiners report a good demand, especially from the eastern territory.

Kerosene and gas oil are about the same, with the former product selling steadily. Neutral oils and cylinder stocks are unchanged and wax is still going for export in fair quantities and at fair prices. Union Petroleum continues to be a prime mover in this business.

The tank car situation has not eased up to any extent and although refiners report a movement on the part of railroads to clean up accumulation of empties the available supply of clean cars is still short. Undoubtedly were it not for this unsatisfactory transportation situation the market on refined products, especially gasoline, would have shown greater declines than is now in prospect for the coming month. However, a gradual easing off on virtually all open market quotations is in sight.

Market for Gulf Coast Lube Active; Prices Firm

Houston, Texas, Oct. 25.—The market for lube oils refined from Gulf Coast crudes continues very active with prices firm and unchanged from the levels of a week ago, both domestic and export. Two cargoes, one of lubricating oils and one of gas oil, are due for loading on the Houston Ship Channel during the present week.

Refinery stocks are largely depleted and those items stored are being held up only through the inability to get tank cars. As one sales manager expressed it, when a tank car is sent out with a load of oil, there is no telling when it will get back for another load.

Prices for the mid-week, fob refinery, were approximately as follows:

Color	Viscosity @ 100° F.		Price per gal. High	Price per gal. Low
—2	70	Pale Oil	7	6.5
2	100	Pale Oil	8	6
2½	150	Pale Oil	12	10
3	200	Pale Oil	14	13
3½	300	Pale Oil	18	17
4	750	Pale Oil	30	28
5	200	Red Oil	12	10.5
5	300	Red Oil	16	14
6	500	Red Oil	18	16
Zero	Black		6	5
Gas Oil			5	4
Fuel Oil (barrel)			$1.40	$1.50

AVERAGE DAILY PRODUCTION FOR ALL UNITED STATES FIELDS
(Stated in Barrels)

This table is carried each week by The OIL WEEKLY, and shows daily production average for each state or section. Figures for Texas, Oklahoma, Kansas, Louisiana and Arkansas are compiled by The OIL WEEKLY, while estimates for the Mountain States, Eastern States and California are furnished by the American Petroleum Institute.

Week Ending—	West Texas	North Texas	Texas Coastal	Total Texas	Kansas	Oklahoma	Louisiana	Eastern States	Wyoming-Montana	California	Arkansas	U. S. Total
Jan. 7, 1922....	199,220	66,410	108,145	373,775	88,050	311,850	94,475	115,500	59,625	320,000	45,530	1,406,805
Feb. 4	206,225	64,695	108,600	383,230	83,800	323,465	103,195	115,500	58,000	325,000	37,560	1,426,040
March 4	218,275	59,855	104,670	382,800	82,450	342,400	126,805	110,000	57,800	310,000	32,515	1,444,770
April 1	197,170	59,620	101,185	357,975	81,900	366,900	128,530	114,500	71,150	325,000	34,650	1,480,605
May 6	168,720	62,270	113,350	344,340	85,200	391,500	87,725	119,000	74,850	330,000	37,700	1,470,315
June 3	155,900	62,445	113,855	332,200	86,100	399,400	98,360	111,500	79,000	350,000	37,395	1,493,955
July 1	147,305	63,020	107,100	317,425	92,000	415,600	94,795	115,000	83,850	355,000	32,800	1,506,470
Aug. 5	150,230	69,055	105,805	325,090	91,675	420,250	94,350	120,500	85,200	375,000	32,105	1,544,170
Sept. 2	139,120	70,640	108,290	318,050	88,300	421,900	103,415	117,000	81,000	380,000	31,530	1,541,195
Sept. 9	139,778	71,715	104,680	316,173	91,000	420,600	101,095	113,000	82,850	385,000	30,335	1,540,053
Sept. 16	125,365	68,330	106,212	299,332	90,600	409,700	102,425	113,000	78,100	385,000	30,000	1,508,732
Sept. 20	139,940	67,130	106,845	313,915	88,900	424,500	99,615	116,000	83,600	410,000	34,960	1,576,670
Sept. 23	145,060	69,230	106,430	320,700	90,000	420,500	102,105	113,000	83,000	390,000	*37,510	1,556,815
Sept. 30	139,940	67,130	106,845	313,915	88,900	421,700	100,245	115,000	77,500	395,000	36,300	1,548,560
Oct. 7	136,795	68,625	113,385	318,805	89,190	424,500	99,615	116,000	83,600	410,000	34,960	1,576,670
Oct. 14	133,695	65,325	116,690	315,710	90,425	428,200	96,495	116,500	88,300	420,000	29,755	1,585,385
Oct. 21	132,520	66,640	114,895	314,055	90,950	422,750	97,655	117,000	87,500	435,000	33,315	1,598,225

NOTE—Mexia production included in West Texas. *Includes Smackover field.

Crude Premiums on North Texas Oil Off 5 to 10 Cents Barrel

WICHITA FALLS, TEXAS, Oct. 24.—The spot crude oil market in the North Texas district early this week was experiencing a softer tone in buying following a brief flurry last week when a number of independent refiners jumped into the market to fill their needs in running off an order or two of high gravity gasoline for foreign destination. Last week the bidding of these plant owners for the small amount of spot crude available returned the premium price to the 50-cent level, but early this week the market was re-acting, and premiums were reported as being off from 5 to 10 cents per barrel, with an increasing amount of crude being offered.

Continued curtailment of refinery runs on the part of many of the smaller plant owners will probably force premiums down to a lower figure. Since the domestic demand for gasolines took their slump during the second week in October, daily runs have been checked by the independent refiners throughout North Texas, except for a few plants that are equipped to turn out high gravity gasoline for export delivery.

Outside of an export demand for 64-66 gravity 365 to 390 end point gasolines, motor fuels are causing considerable worry to the plant owners in finding a market, and stocks are beginning to accumulate. The domestic demand for virtually all grades of gasolines is giving no indications of picking up, and prices are being shaded by the manufacturers with hopes of stimulating life in the market. However, the export business can be described as good for the time being, but the refiners are hesitating on taking on large orders because of the absence of a market for the remainder of the light stuff left from their crude. Export buyers are paying from 16 to 16½ cents per gallon for the high gravity product, while the refiners are quoting navy gasoline from 12 to 12¼ cents, with 56-58 gasoline a full cent cheaper.

Kerosene continues to enjoy an excellent demand from domestic buyers, and further stiffening of prices is looked for since the present output is not keeping pace with the early needs of the domestic jobbers. Export buyers have also made inquiries for this product, but are refusing to pay prevailing prices, which range from 5 to 5¼ cents per gallon for 41-43 gravity kerosene.

Fuel oil and other burning oils appear to be holding their own in price as well as in demand, and have been moving more freely since the tank car situation began to improve. Wichita Falls refiners continue to quote from 90 cents to $1.00 per barrel, while Fort Worth and Dallas plants are disposing of their product at prices ranging from $1.05 to $1.15 per barrel.

Lee Wilson, head of the Eureka Drilling Company, has returned to his headquarters at Wichita Falls following a two-week's trip to West Virginia to visit relatives. Mr. Wilson made a tour of the Kentucky oil fields before making the return trip home.

Says Crude Is Worth More in the Earth

Ponca City, Okla., Oct. 23.—Unless compelled to do so, the McCaskey-Wentz Co. of this city, will not complete wells where four rigs are now being built in the southeast quarter of section 34-25-1 west, the northern part of the Tonkawa field. The wells will be drilled only to the sand, where drills will be halted until better conditions prevail in the market.

This company has been following this practice in the northwestern part of Kay county, where a number of wells are on the sand but not completed.

"The crude is more valuable in the earth under present conditions," says L. H. Wentz, member of the firm.

KEROSENE EXPORT DEMAND SAID TO BE HOLDING UP

Tulsa, Okla., Oct. 23.—S. R. Scivally, manager of the Tulsa branch of the Union Petroleum Company, has returned to his office in the Cosden building after a two weeks trip through the East and Middle West. Mr. Scivally was in Chicago during the annual gathering of the National Petroleum Marketers Association and later went to Philadelphia where he conferred with officials of the Union.

That the export demand is holding up well on kerosene is the opinion of Mr. Scivally, who advised that his company was still in the market for that product and that some difficulty was being experienced in obtaining some of the higher grades just at this time.

Crude Oil Prices

	Oct. 26 1922	Oct. 27 1921
LOUISIANA		
Caddo 38 gravity and above	$1.25	$1.25
Caddo 35 to 37.9 gravity	1.15	1.15
Caddo 32 to 34.9 gravity	1.10	1.10
Caddo 32 gravity and below	.75	.85
Homer 35 gravity and above	1.25	1.25
Homer 31 to 32.9 gravity	1.10	...
Homer 33 to 34.9 gravity	1.15	...
Homer 31 gravity and below	.75	...
Haynesville:		
33 gravity and above	1.10	1.10
32.9 gravity and below	1.00	1.00
Bull Bayou:		
38 gravity and above	1.15	1.00
35 to 37.9 gravity	1.05	...
32 to 34.9 gravity	1.00	...
De Soto Crude	1.25	1.25
Crichton crude	1.00	1.00
Bellevue (Bossier Parish)	.75	...
Jennings crude	1.25	.80
Vinton	1.25	.80
Edgerly crude	1.25	.80
EASTERN STATES		
Cabel	$1.86	$1.61
Pennsylvania	3.00	2.75
Ragland	1.00	.85
Corning	1.75	1.65
North Lima	1.98	1 83
South Lima	1.98	1.83
Wooster (9-21-22)	1.90	2.05
Somerset, heavy	1.71	1.40
Somerset, light	1.96	1.65
Illinois	1.77	1.52
Indiana	1.78	1.63
Plymouth	1.15	.65
Princeton	1.77	1.52
Waterloo	1.25	1.00
WYOMING		
Elk Basin	1.20	1.40
Grass Creek	1.20	1.40
Rock Creek	.80	1.00
Lance Creek	1.20	1.35
Mule Creek	.60	.95
Bug Muddy	.70	.90
Salt Creek	.70	...
Osage	1.20	...
Cat Creek (Montana)	1.20	...
Landers	.37½	...
CALIFORNIA		
(Crude oil prices at the well)		
San Joaquin Valley and Whittier-Fullerton fields		
14 to 19.9 gravity	.60	1.10
20 to 20.9 gravity	**.63**	**1.16**
21 to 21.9 gravity	.67	1.20
22 to 23.9 gravity	.73	1.25
23 to 23.9 gravity	.80	1.31
24 to 24.9 gravity	.88	1.38
25 to 25.9 gravity	.96	1.46
26 to 26.9 gravity	1.05	1.55
and for each increase in gravity of one full degree above 26, up to and inclusive of 34.9 gravity, ten cents a barrel additional.		
35 gravity and above	**1.85**	**2.45**
CANADIAN CRUDE		
*Petrolia	2.38	1.98
*Oil Springs	2.45	...
*Plus 52½ cents bounty.		
ARKANSAS		
El Dorado:		
33 gravity and above	1.25	1.25
Below 33 gravity	1.00	1.15
Smackover (9-27-22)	.75	.75
OKLAHOMA		
Healdton, Walters, Beaver	.75	.80
Cement	.85	.95
All other fields	1.25	1 50
38 gravity and above (Gulf only)	1.50	...
KANSAS		
All fields	1.25	1.00
KENTUCKY		
Western (Indiana Def. Co.)	1.65	1.00
TEXAS		
N. Texas (except Corsicana)	1.50	1.50
Corsicana, light	1.00	1.05
Corsicana, heavy	.65	.70
Mexia	1.25	...
Currie (40 grav. and better)	1.50	...
Mirando (10-1-22)	.80	...
Gulf Coast (ex. Pierce Junction, Blue Ridge and Hull)	1.25	.80
Nacogdoches	3.20	...
Pierce Junction, Grade A	1.25	...
Pierce Junction, Grade B	.80	...
Hull, Grade A	1.25	...
Hull, Grade B	.80	...
Blue Ridge	.80	..

Market Quotations

GROUP THREE TERRITORY

(Tank car lots, f. o. b. Group Three, Oklahoma, or freight rate adjusted.)

Gasoline and Naphtha

48-50 450 end point Naphtha	10	10¼
50-52 450 end point Naphtha	10¼	10½
56-58 450 end point	10¾	11
56-58 437 end point (New Navy) i. b. p. 140	11	11¼
58-60 437 end point (New Navy) i. b. p. 140	11¾	12
60-62 400 end point	14¾	15
64-66 370-375 end point (export specification	16½	16¾
68-70 350-360 end point	17½	18

Natural Gasoline

Grade A 72-76, under 375 end point, rec. 90%	14½	14
Grade B 76-80, 375 end point, rec. 88%	14	14¼
Grade C 80-84, 375 end point, rec. 85%	13½	14
Grade D 80-84, 330 end point, rec. 80%	13½	14
Grade E 84-87, 330 end point	13½	13¾
Grade 1 60-62, 450 end point (motor blend)	10¾	11
Grade 2, 62-66, 450 end point (motor blend)	10¾	11
Grade 3 66-70, 450 end point (motor blend)	11	11¼

Neutral Oils

70 Vis. @ 100, No. 2	4¼	4½
70 Vis. @ 100, Nos. 2½-3	4	4¼
100 Vis. @ 100, No. 2	5	5½
100 Vis. @ 100, No. 3	4¾	5
150 Vis. @ 100, No. 4	8	8¼
200 Vis. @ 100, No. 3	11	11½
200 Vis. @ 100, No. 4	10¼	10½
200 Vis. @ 100, No. 5	9¾	10
240 Vis. @ 100, Nos. 5 and 6	11¼	11¾
280 Vis. @ 100, No. 6	13	13¼
300 Vis. @ 100, No. 6	14¼	14¾

Cylinder Oils

600 Bright Filtered	27	30
600 Light Filtered	16	16½
600 Steam Refined, Olive Green	6	6½
600 Steam Refined, Dark Green	5	5½

Burning Oils

41-43 Kerosene A. T.	5	5¼
42-43 Kerosene A. T.	5⅛	5⅜
38-40 Lt. Straw Distillate	3½	3⅝
45-47 W. W. Distillate	6¼	6½
46-48 W. W. Distillate, 500 end point	8	8¼

Wax

124-126 White Crude Scale lb.	2⅛	2¼

Fuel Oils

32-36 Gas Oil	2⅞	3
24-26 Fuel Oil (bbl.)	$1.05	$1.07½
Buyer's cars	.95	$1.00

Road Oils (Based on Group 3)

50-60 Asphaltic content	$1.20	$1.25
60-70 Asphaltic content	$1.25	$1.30

Bartlesville, Okla., Oct. 25.—The Empire Gas & Fuel Co. has begun construction on a new booster station on its 18-inch gas main from Barnsdall, Oklahoma into Kansas. The new station is being built in the southwest quarter of section 5-26-12, two miles west of this city.

Pittsburgh, Pa., Oct. 23.—Leading independent producers have followed the action of National Tube Company in advancing steel pipe prices $4 to $5 a ton. Advance was first made October 19. A like advance in oil country goods is anticipated.

Sizes ¼-inch and larger in merchant pipe were advanced two points, or about $4 a ton and the ½-inch to 2½ points, or $5 a ton. The advance applies to both black and galvanized grades.

NORTH TEXAS

A fair list of prices on refined petroleum products in the North Texas district, f. o. b. shipping point in tank car lots, follows:

Gasoline, SR 56-58, 450 e. p.	11	11½
Gasoline, SR, 58-60, 437 e. p.	12	12¼
Gasoline, SR, 60-62, 400 e. p.	14¼	14½
Gasoline, SR, 64-66, 390 e. p.	16	16½
Naphtha, 50-52, 450 e. p.	9	10
Natural Gasoline (Casinghead), 80-88	13½	14
Natural Gasoline (Absorption) 70-74	14½	15
Kerosene, WW, 41-43	5	5¼
Distillates, 36-38	2¾	3
Gas Oil, dark or straw, 32-36	2½	3
Fuel Oil (Wichita Falls)	.90	1.00
Fuel Oil (Fort Worth	1.10	1.15

FUEL OIL PRICES

(October 25, 1922)

Below are given average prices of Mexican fuel oil at points named:

	Dock	FAS
New York	$1.45	$1.51
Charleston	1.40	
Jacksonville	1.40	
Tampa	1.40	
Mobile	1.35	
New Orleans	1.25	
Galveston	1.24	1.50
Texas City	1.25	1.40

STEEL PRICES SHOWING SLIGHTLY BETTER TONE

Pittsburgh, Pa., Oct. 20.—The shortage of available cars is interfering with the return to a stabilized basis in the Pittsburgh and Youngstown districts and steel prices are reflecting slightly improved fuel situation. Sheets, tubular goods, wire products, tin plate and other of the more highly finished lines are showing strength with buying sustained.

A total of 10,000 tons represents the week's new business in oil tank and still awards with some 15,000 to 20,000 tons pending subject to final confirmation from buyers.

Tulsa, Okla., Oct. 23.—Murray M. Doan, Mid-Continent oil producers, has been elected a director of the Skelly Oil Co., taking the place of James W. Sloan, resigned. Other directors of the company were reelected as follows; W. G. Skelly, president; C. C. Herndon, vice president; John H. El Nilsson, secretary-treasurer; John S. Griffin, A. C. Gwynne, John S. Sankey, A. T. Ferrel and Glenn Ford McKinney.

MARLAND TO PAY DOLLAR DIVIDEND ON EACH SHARE

Ponca City, Okla., Oct. 23.—That dividends of $1 per share quarterly will be paid as previously directed by directors of the Marland Oil Co. was the substance of a statement here today by E. W. Marland, president of the company. His statement, which follows, was issued following rumors that the company will pass the December dividend:

"Persistent rumors have been circulated to the effect that the Marland Oil Company will pass or reduce its December dividend. These rumors have not emanated from the officers or directors of the company and are entirely irresponsible. The executive committee was directed by the June meeting of the board of directors to declare the regular dividend of $1 per share quarterly until otherwise ordered by the board. I do not think it advisable to change our dividend policy and in my opinion the December dividend will be earned and paid to stockholders of record November 30. Eastern directors who have lately visited our plants and properties agree with this policy."

Baltimore, Md., Oct. 23.—A notice has been issued by J. S. Cosden, president of Cosden and Company, calling for redemption on January 1, 1923, all of the company's outstanding convertible 6 per cent bonds, both series A and B. They will be converted at the call price of 110. The retirement of these bonds will leave Cosden and Company without any funded debt.

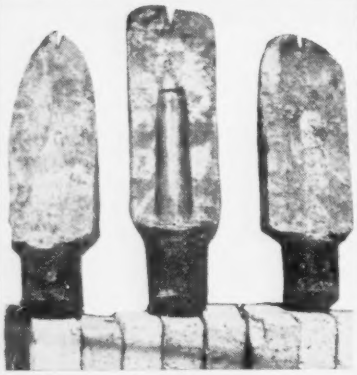
Philadelphia, Pa., Oct. 24.—Stockholders of the Union Oil Company at a special meeting October 20 approved the dissolution of the company, the assets and liabilities of which have been taken over by the Shell Union Oil Company of Delaware.

New York, N. Y., Oct. 21.—Cable advices are to the effect that the Compagnie Industrielle des Petroles of France has increased its capital from 40,000,00 to 60,000,000 francs. The Sinclair Refining Company is subscribing to one-half the amount of the increased issue which will give that company a 45 per cent control when taken with former acquisitions.

Tulsa, Okla., Oct. 23.—Two subsidiaries have just been formed to develop holdings of the Gladys Belle Co. in Montana and in Canada. The Gladys Belle Oil & Refining Co. of Montana, has capital of $2,500,000. The Gladys Belle Canadian Oil & Refining Co. has 400,000 shares of $25 par value capital stock.

The Canadian company will operate across the Canadian border from the Sweetgrass uplift, where the Montana company has acreage.

Wichita Falls, Texas, Oct. 25.—The Empire Gas & Fuel Company has purchased the Shamrock Oil Company's half interest in 40 acres of undeveloped leases located in the southeast quarter of the northeast quarter of section 34, H. & T. C. Ry. survey, block 5, for a cash consideration of $22,500. Empire already owned the other half, having obtained same from the Planet Petroleum Company last August. It is reported that development of the lease will begin shortly after the first of the year.



ONCE upon a time there were
* * *
THREE bits. They were born
* * *
ABOUT the same time and to
* * *
LOOK at them you would have
* * *
THOUGHT they were triplets.
* * *
BUT one bit had better parentage
* * *
THAN the other two. They were
* * *
JUST ordinary bits with just
* * *
ORDINARY steel in their
* * *
MAKEUPS, while the other bit
* * *
WAS made of sterner stuff. It was
* * *
MADE of Crescent steel. We
* * *
HAVEN'T a picture of them at
* * *
BIRTH, but they were as like in
* * *
LOOKS as 3 peas. But look
* * *
AT THEM now! Steel, like blood,
* * *
WILL tell. The above picture of
* * *
THE three bits was taken after
* * *
THEY had been put to the test.
* * *
THE first bit in the picture was
* * *
RUN 20 minutes at a depth below
* * *
3000 feet. See what happened
* * *
TO IT! It made 12 inches of
* * *
ROCK. The middle bit is the
* * *
CRESCENT bit, made by us. It
* * *
RAN 30 minutes and made 12
* * *
INCHES. It is as fresh as new.
* * *
THE third ran 20 minutes and
* * *
MADE 6 inches. It pays to
* * *
USE out bits. Ask us for
* * *
MORE information.

Gulf Coast Machine and Supply Co.
BEAUMONT, TEXAS

Gasoline Price Reduced One Cent Gallon on West Coast

LOS ANGELES, Calif., Oct. 25.—Gasoline was reduced one cent yesterday by Standard Oil Company and followed by other companies. This is the first change in the retail price of gasoline in California in more than a year.

The change applies to all Pacific Coast territory.

Figures released by the Bureau of Mines today show that stocks of gasoline in California increased over 9,000,000 gallons during September, while the output of refineries was 2,500,000 gallons greater than in August.

During the spring and summer, up to the first of August the refinery output was less than consumption. Since August 1 the refineries have been able to meet demand for gasoline and to accumulate additional surplus stocks of this product.

During September the refineries of the state operated at four per cent. more than their indicated capacities and processed approximately 10,000,000 barrels of oil.

Kerosene and gas oil stocks increased during September in about the same ratio as gasoline stocks. However, there was a small decline in the stocks of fuel oil held at refineries and of lubricating oils.

Operators here believe there will be further reductions in the price of gasoline. Winter season does not affect the gasoline consumption on the West Coast to the same degree that it affects it in the rest of the country. However, there is a slackening up of demand in the Northern part of the state and in Washington and Oregon, during the winter months. It is the opinion here that the price of gasoline will be further reduced before the first of the year.

Angelina County Well Finds 10 Feet of Sand

Lufkin, Texas, Oct. 25.—H. C. Jennings, oil operator of Houston, Texas, drilled a well into the pay at 540 feet on the J. H. Fillison Headright survey, Henderson tract, Angelina County, about 15 miles east of Lufkin.

The oil from this sand tests 19 gravity Baume and it is believed that it will make around 10 barrels on the pump.

Mr. Jennings' Syndicate holds leases in the vicinity of this well to approximately 2,000 acres and several Houston companies are reported to have purchased acreage near the well.

This may be the discovery of a new shallow field. There is about 10 feet of sand at this depth. Wallace Robinson, formerly with the Texas Company, was the driller in charge.

Wanted to Buy

2—10,000-Barrel Steel Tanks
1—15,000-Barrel Steel Tank
2— 2,500-Barrel Run Down Tanks
4— 1,000-Barrel Run Down Tanks
6— 1,000-Barrel Fire and Steam Stills

2" Line Pipe 4" line Pipe
3" Line Pipe 6" Line Pipe

All sizes, Valves, Fittings, Connections and Overhead Lines, etc.

Can use new or second hand. Immediate shipment desired.

Lion Oil & Refining Company
624 Finance Building
KANSAS CITY, MISSOURI

MOUNTAIN STATES
WYOMING, MONTANA, COLORADO

Midwest Expects Good One In Navajo Indian Reserve

CASPER, WYOMING, Oct. 21.—Exploration Department of the Midwest Refining company is shipping ten 250 barrel tanks to Farmington, N. M. in anticipation of getting an oil well in its test between Farmington and Shiprock on the Navajo Indian reservation which has a good showing of oil at 800 feet.

There are rumors that it is a better well than first reported and that it may be the forerunner of a new field of considerable magnitude. Midwest has the lease on 4800 acres.

It was thought that after the discovery considerable more acreage could be secured but it is understood that the local Indian agent has not only refused to approve any more leases but that he has recommended that all applications be disproved and that all open acreage be leased to the highest bidder as has been done with the Osage lands in Oklahoma.

MOUNTAIN STATES COMPLETIONS

Casper, Wyo., Oct. 23.—Following are the recent completions in the Mountain States fields:

Company, Well, Location	Initial Production bbls.	Depth
Salt Creek—		
Midwest's 12, SW¼ 27-40-79	693	2396
Midwest"s 7, SE¼ 27-40-79	130	2150
Producers & Refiner's 1, 18-40-78	150	1810
Western States' 17-AX, NW¼ 17-39-78	100	2540
Fensland's Lawrence 1, NW¼ 20-39-78	1000	2651
Rock River—		
Ohio Oil State Land 7, 34-7-28	67	3307
Lance Creek—		
Ohio Oil Co.'s Putnam 2, 4-35-65	120	3430
Ferris Field—		
Producers & Refiners' 1, 36-26-87	100	2115
Soap Creek, Montana—		
Western States' 6, SW¼ 27-6-32	100	1960

CHARLES NEILL IS BURIED AT FAIRMOUNT, W. VA.

Tulsa, Okla., Oct. 24.—Charles R. Neill, assistant superintendent of the Gulf Pipe Line Co. of Oklahoma, died Monday night in the Research Hospital in Kansas City, Mo. He underwent an operation there two months ago.

The funeral was held at his former home in Fairmont, W. Va. He entered the oil business in his native State. For the past few years he had been in Pipe line work in Kansas, Oklahoma and Texas.

Survivors are his mother, two sisters, Mrs. Myrtle McCray and Miss Helen Neill, one brother C. H. Neill, all of Fairmont W. Va. and one brother Jean Neill of Cairo, W. Va.

Water Conditions in Mexia, Texas, Oil Field

Mexia, Texas, Oct. 21.—Experimental work on a small group of oil wells in the northern part of the Mexia, Texas oil field has been undertaken by the Bureau of Mines.

Deeper oil has been discovered in the field, and, as many operators are planning to deepen some of their noncommercial wells, the Bureau is seeking to insure an adequate program to protect the present productive zone.

Operators have been advised not to deepen their wells for new production until it is determined that the wells can not be repaired profitably, as the newly-discovered oil may not be found over a wide area.

Fort Worth, Texas, Oct. 24.—The Magnolia Petroleum Company has purchased the Mahlstedt Mook Oil Company of Fort Worth's 160 acre lease on the Baker-Gannon tract in the Curry-Aetna pool in Stephens County for a cash consideration amounting to approximately $225,000. This lease is located in the northwest corner of Section 32, T. & P. Survey, Block 8, about five miles southwest of Breckenridge, and has eight producing wells with a combined daily average production of 350 barrels.

Okmulgee, Okla., Oct. 21.—Walter Keegan, a well known oil man and drilling contractor of Tulsa and Bartlesville, died here October 19 while on a business mission. Keegan was a member of the firm of Keegan and Holmes of Bartlesville. He was 31 years old. He is survived by a wife and other relatives at Washington, Pennsylvania.

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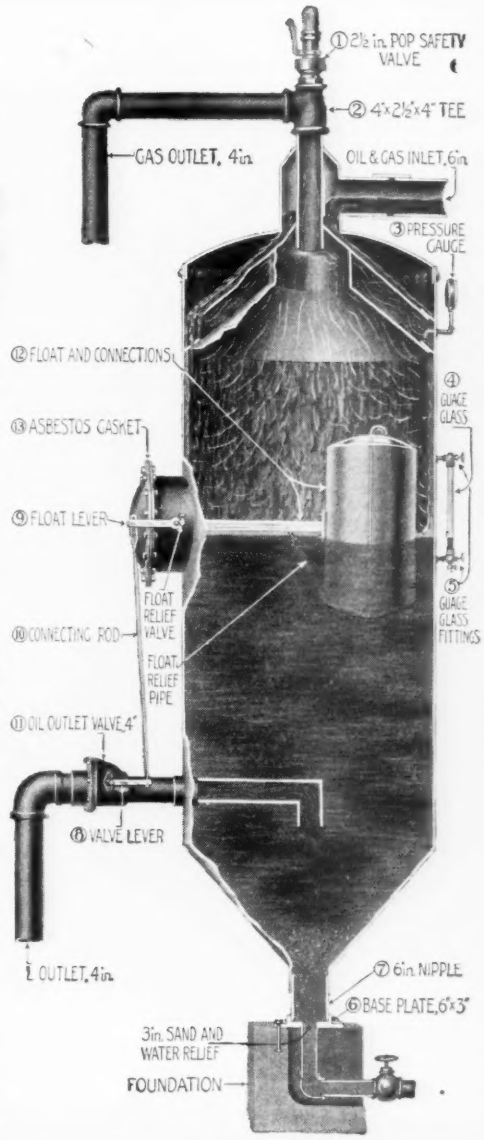
Get Him on the Wire



OKLAHOMA PRODUCTION

Tulsa, Okla., Oct. 24.—The average daily production of Oklahoma fields for the past week follows:

Field—	Barrels
Burbank	80,200
Other Osage	34,350
Creek County	62,800
Cushing	28,600
Hewitt	28,000
Okfuskee county	21,600
Okmulgee district	20,000
Healdton	19,000
Tonkawa	17,500
Duncan and Walters	16,000
Other fields	94,700
Total	422,750
Last week	428,200

OKMULGEE DISTRICT COMPLETIONS.

Company, Well, Location	Initial Production bbls.	Depth
McIntosh County—		
Aggas & Campbell Griffin 1 C W L E½ NW NW 33-12-14	¶2	640
Humphreys et al Smith 3 C W L NW NW 32-12-14	*	850
Nicholson et al Smith 2 SEc NE SE 29-12-14	¶¾	715
Okmulgee Offset Oil Co. Griffin 3 NWc SE SW 30-12-14	*	2225
Smith & Wallace Beeler 1 NEc SE SE 21-12-14	¶7	2175
Muskogee County—		
W. R. Somerville Brown 3 C SW NW 35-15-15	30	1610
Transcontinental Oil Co. Thompson 2 NWc NE 17-15-15	*	2575
Okmulgee County—		
Acta Oil Co. Lee 1 NWc SE SW 19-13-13	10	1600
Beggs O. & G. Co. Adams 8, C SW NW 10-15-11	¶5	2145
Edwards et al Harney 4 NWc 16-15-11	*	2983
C. B. McCrory Nelson 5 NEc SE SE 21-13-14	10	1580
Montrose Pet. Co. Thompson 4 C E L SE SW 6-15-11	75	2960
Selby Oil Co. Thompson 3 NWc SW SE 6-15-11	75	3025
Okfuskee County—		
J. B. Foster Pigeon 2 NEc SE 2-10-9	¶37	3080
E. B. George Sullivan 1 NEc SW 2-12-11	*	3355
Henry Oil Co. Barnett 7 C S L SW SW 24-11-12	100	2700
Josey Oil Co. Stubblefield 1 SWc 26-12-11	¶15	2730
Kemp and Jennings Cully 1 NWc SW NW 12-10-9	*	3150
Midwest and Gulf Pigeon 4 NEc SE SE 2-10-9	¶4	2860
Texolean Oil Co. Wind 1 SWc SE 36-11-9	¶10	3175
Turman Oil Co. Robinson 1 SEc NW 10-10-10	*	3285
Wangerine Oil Co. Davis 1 NWc SE SE 9-13-10	*	3510

Acreage Mile From Prairie Well In Hughes County Sells for $1000

TULSA, OKLA, Oct. 24.—That the northern part of Hughes county Oklahoma is to be tested following the strike of the Prairie Oil & Gas Co. in section 5-9-10 is indicated by acreage sales near the well. Since completion 10 days ago, the Prairie well, owned jointly with several individuals, has been making 500 barrels daily.

One mile distant from the well, leases are selling at $1,000 an acre. Although few sales have been reported, prices are being held at a high figure. Recent buyers include the Gypsy Oil Co., the J. A. Hull company, Frank Tack and associates.

The Prairie Pipe Line Co. now has a line to the Hughes county well. It is to be drilled deeper in an effort to increase the output. The present production is coming from a sand at 3028 feet, which was penetrated less than two feet. The oil tests 40.5 degrees Baume.

Already a half dozen rigs are building in section five, where the Prairie well is producing. Others are to be started within the week.

Dr. J. C. Wilhoit of Kansas City, D. M. Ward and Jess Marshall of Peabody, Kansas and A. E. Lee of Lockport, N. Y. are interested in the Hughes county well, the first producer of commercial importance for the county.

Another well, which has caused acreage prices to soar is that of the Hiram C. Wilson Syndicate in section 8-15-8, Creek county. This well, although four weeks old is still flowing around 2,500 barrels daily of high grade oil. The Carter Oil Co., the Skelly Oil Co. and Shaffer Oil & Ref. Co. and the Magnolia Pet. Co. are recent buyers around this well. Prices have been as high as $1,000 an acre for choice leases.

Other parts of Oklahoma were void of exceptional events for the week, except the Burbank pool, where development is expected to show a decided pickup, if the Department of the Interior yields to the request of the Central Committee on Shut-Down and storage for a removal of restrictions of completing wells in the Osage nation.

In the Tonkawa pool, the Southwestern Petroleum Co. completed well No. 14 on the Murray lease for 1800 barrels initial production at 2635 feet. The well is in the southwest corner of section 10-24-1 west. It is in the south part of the pool and one of the best wells ever completed there. Production is coming from the second sand.

Most of the drilling at present is in the north part of the pool, which extends into Noble county, where the McCaskey & Wentz Co. drilled the first producer on the McKee farm. In this part of the field the Comar Oil Co. recently bought the north half of the southwest quarter of section 34-25-1 west from the Goldofine Oil Co.

Production for Oklahoma showed a drop for the week, compared with the previous week. Most of this can be charged to the Burbank pool, where restrictions of the Department of the Interior have resulted in fewer completions and a loss in production.

NORTH OKLAHOMA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Kay County—		
Balentine et al Vickery 1 SEc SW SW NW 18-27-1e	¶7	760
Blackwell O & G Co. Magette 1 SEc NE NW NW 13-26-1w	¶4½	710
Noble County—		
Blackwell O & G Co. Ruzek 4 NEc NW 3-24-1w	1150	2045
Carter Oil Co. et al Morris 1 C NW NW SE 15-24-1w	*	2730
Champlin Ref. Co. Morris 3 NWc SE SW 15-24-1w	*	2765
Comar Oil Co. Rucik 3 NEc SE 3-24-1w	300	1890
Southwestern Pet. Co. Murray 16 C NW SE SW 16-24-1w	*	2125
Pawnee County—		
Bell & Eardmon Harrington 1 NEc SE NE 20-22-7	*	3440
Bradstreet Oil Co. Mangan 8 NWc NE SW 36-20-8	25	2105
Josey Oil Co. Scott 1 SWc NW NW 22-20-6	¶8½	2785
Stone et al Lesher 1 SEc NE 21-20-6	¶11	2799
Osage County—		
Celestine Oil Co. 7 NEc SW NE SE 33-25-9	10	2125
Cosen Oil and Gas Co. 15 NEc SW NW 8-26-6	25	2920
Gardner Pet. Co. 3 NEc SE NE NE 12-26-5	100	2985
Gypsy Oil Co. 3 NWc NE NW NW 7-26-6	25	2940
Peters Oil Co. 1 SWc NE 6-22-9	25	2600
Phillips Pet. Co. 3 M C SW SE SW 19-27-6	800	2975
Phillips Pet. Co 7 C NW SE NE 29-27-6	1000	2965
Roxana Pet. Corp 11NW SW NE 36-27-5	200	2985
Skelly Oil Co. 13 NWc SE NW SW 10-22-9	10	2235
Tidal Osage Oil Co. 7 NEc SE NE SW 6-26-6	600	2880
Tidal Osage Oil Co. 9 C SE NW SE 4-26-6	125	2800

OKLAHOMA CHARTERS.

Oklahoma City, Okla., Oct. 21.—Charters granted new companies in Oklahoma are as follows:

Tulsa Pipe and Supply Company of Tulsa. Incorporators Harry Stekoll, A. D. Elliott and Mabel Elliott, all of Tulsa. Capital $100,000.

Ions Oil Company of Okmulgee. Incorporators James A. Morgan and W. T. Gillman, both of Okmulgee. Capital $15-000.

Oklahoma Oil & Gas Company of Ponca City. Incorporators J. B. Hinkle, L. A. Maris, and F. C. Bell, all of Ponca City. Capital $100,000.

Oklahoma-Tennessee Oil Company of Bransdall. Incorporators Albert Langmore, W. W. Chase and O. H. Randall, all of Barnsdall. Capital $75,000.

SOUTH OKLAHOMA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Caddo County—		
Carter Oil Co. McCaughtry 1 SEc NE NW 26-5n-8w	¶15	1320
Magnolia Pet. Co. Lair 1 SEc SW SW 22-6n-10w	200	2020
Carter County—		
Ketch & Wallace Dillard 10 NEc NW SE NW 22-4s-2w	200	2150
Magnolia Pet. Co. Hefner 1 C SE SW NE 27-2s-3w	50	2180
Bennett 2 NEc SE NW 21-2s-2w	100	2550
Menich et al Bennett 1-A NEc SE NW 31-2s-2w	175	2525
Rockland Oil Co. Dillard 8 SEc SW NW 22-4s-2w	50	2320
Sure Oil Co. Gazaway 4 C SW SE NW 16-4s-2w	40	2225
Comanche County—		
Coline Oil Co. Harris 2 C E L SE NE 25-1n-9w	¶4	2210
Magnolia Pet. Co. Harris 6 SEc NE NE 25-1n-9w	*	1900
Garvin County—		
Magnolia Pet. Co. Jones 5 NWc SE NE SE 19-1n-3w	*	1875
Tidal Osage Oil Co. Johns 1 NWc NE NW SW 24-2n-3w	*	2645
Jefferson County—		
Addington Syndicate Dobbins 1 NEc SW SW SW 28-3s-6w	*	2935
Stephens County—		
Cosden O & G Co. Dolen 2 C SE NW NW 15-1n-8w	*	2125
Empire Gas & Fuel Co. Surber 25 SEc SW 33-1s-8w	30	2250
Gypsy Oil Co. Brindenthal 1 NWc SW SE 15-1s-8w	*	2225
Lucky Ridge Oil Co. Nelson 5 SWc SE NE 28-1s-8w	¶12	2185
Magnolia Pet. Co. Johnson 1 NWc SE NE 24-1s-9w	*	2120
Robertson et al Cox 4 SEc SW NE 24-1s-9w	¶7½	1790
Roxana Pet. Corp. Millist 1 NEc SE SW 23-2s-6w	70	1725

OKLAHOMA OLD FIELDS

Creek County—		
Cosden O & G Co. Colaw 5 NWc SE 26-16-9	600	2965
Independent Oil Co. Kimble 5 SWc NE 33-15-10	100	3145
Baker 1 NEc NW 12-14-10	*	2575
Phillips Pet. Co. Fife 4 NWc SW SW 15-14-8	*	3270
Waite Phillips Colaw 5, NWc SE SW 26-16-9	50	2995
Tidal Oil Co. Sango 1 C NW NE SE 16-16-9	225	2985
Western Natural Gas Co. Bartleft 3 SWc NW NW 19-16-11	¶12	2170
Wilcox Oil & Gas Co. Post 2 NEc SW 33-15-10	*	3140
J. H. Wright McNack 1 SEc NE SW 39-15-10	30	2695
Garfield County—		
Crews Heirs Oil Co. Crews 4 C NW NW SE 19-22-3w	50	1365
Producers & Refiners Annis 1 C NE NE SE 5-26-4e	*	2330
Quadrangle Oil Co. Devore 1 C SW SW NE 34-22-3w	*	2665
Payne County—		
Cosden O & G Co. Yount 1 NEc 31-18-5	15	4040
Josey Oil Co. Laughlin 1 SEc 35-19-5	¶7	2720
Tulsa County—		
Diamond Ref. Co. unallotted 1 NEc SE NW 26-19-12	5	1100
Wilmont et al Island 2 SEc 15-19-10	¶15	2045

THE WEEK IN OKLAHOMA TOLD BY FIGURES

County	New Rigs	Rigs Abn.	Completions	Producers	Gas Wells	Failures	Prod. in bbls.
Creek	18	3	9	5	1	3	1,005
Garfield	0	0	3	1	0	2	250
Payne	4	0	2	1	1	0	15
Tulsa	4	0	2	1	1	0	5
Kay	2	0	2	0	2	0	....
Noble	2	0	5	2	0	3	1,450
Osage	3	0	11	11	0	0	2,920
McIntosh	2	0	5	3	2	0	....
Muskogee	6	0	2	1	0	1	30
Okfuskee	7	0	9	1	4	4	100
Okmulgee	9	0	6	4	1	1	170
Caddo	4	0	2	1	1	0	200
Carter	1	0	6	6	0	0	615
Garvin	4	0	2	0	0	2	....
Stephens	1	0	7	2	2	3	100
Comanche	0	0	2	1	1	0	....
Jefferson	0	0	1	0	0	1	....
Totals	67	3	76	40	16	20	6,860
Last week	99	7	113	63	15	35	20,920

Lack of Sufficient Funds Hinders Mid-Continent Oil and Gas Assn.

TULSA, OKLA., Oct. 23.—Increased appropriations, in order that the work of the Mid Continent Oil and Gas Association may widen the scope of its activity are recommended in a resolution adopted at the annual meeting of the Kansas-Oklahoma division of the organization here October 18.

The resolution sets out that executive offices of the association have been hampered by lack of funds and that a larger office force is needed.

The resolution follows:

"Be it resolved that it is the consensus of opinion of this meeting of members of the association that the scope of activities of the Mid-Continent Oil and Gas Association should be broadened in order that it may give its members a more valuable service. But it also appears that the association and its executive officers are poorly financed and that they have been hampered in the past by lack of necessary funds. The desired increased efficiency can only be obtained by increasing the budget and by permitting the secretary to increase his staff. We, therefore, recommend to the executive committee that a plan be worked out at the earliest possible date by which both the general association and divisions may be more adequately financed and that said plan be put into effect as soon as possible."

HAVE 58 PRODUCERS IN PEABODY, KANSAS, FIELD

Wichita, Kan., Oct. 21.—Robert Watchorn of Oklahoma City, president of the Watchorn Oil & Gas Company, pioneer operators in the Peabody field in Kansas, has just completed an inspection tour of the company's properties. He only recently returned to the United States after several month's stay in England. Watchorn plans to spend a good deal of his time in New York.

The Watchorn Oil & Gas Company has some 58 wells already completed in the Peabody field and is pushing ahead with an intensive drilling campaign. The company's only activity in Oklahoma at the present time is in the Morrison pool where four tests are going down.

Headquarters of the Watchorn Oil & Gas Company are in Oklahoma City.

Wichita, Kans., Oct. 20.—R. A. Chapin of Eureka, Kansas, has accepted a position with an English syndicate and is leaving for South America, where he will have charge of operations in the Argentine. Chapin expects to sail from New York about October 28. The English syndicate is shipping some 18 strings of tools for their development work in South America.

May Test Ordinance Against City Drilling

Bristow, Okla., Oct. 23.—Despite a city ordinance, which makes town-lot drilling illegal, leasing of property within the corporate limits of this city continues. Rumors are current that oil operators will test the constitutionality of the city ordinance against drilling in the city.

This ordinance, recently passed, gives the police authority to arrest any man or set of men, who begin the drilling of a well in the city and the Mayor authority to assess fines after conviction.

Wichita, Kansas, Oct. 24.—The Standard Piston Ring Company with J. A. (Jim) Woods as president, has been organized under the laws of Kansas and application for a charter has been made. The company will be a subsidiary of the Bridgeport Machine Company of Wichita, manufacturers of oil well supplies which includes the well known Swan underreamer. Other officials of the new concern include A. A. Buschow, secretary and treasurer of the Bridgeport Machine Co.; and D. E. Wilson, and C. M. Powell.

KANSAS PRODUCTION

Independence, Kansas, Oct. 24.—Kansas production showed the following daily average for the past week:

Field—	Barrels
El Dorado	19,000
Elbing and Peabody	15,700
Fox Bush	12,200
Greenwood County	9,400
Florence	8,900
Blankenship	5,500
Augusta	4,750
Leon and Weaver	3,000
Other fields	12,500
Total	90,950
Last week	90,425

KANSAS COMPLETIONS.

Company, well, location	Initial Production bbls.	Depth
Butler County—		
Branson et al Daughty 1 SEc NE SW 5-27-6	10	2780
Connell Pet. Co. King 1 NEc NW NE SW 16-27-6	*	2815
Hoyt et al Dahlen 1 NEc SW 11-26-6	*	2820
Maubry et al Little 1 SWc NW 27-29-6	*	2900
Phillips Pet. Co. Shepard 1 NWc 7-24-5	900	2475
Trapp & Curtis Blair 1 SWc SE SE SE 26-29-6	*	3170
Cowley County—		
Titus et al Eastman 1 C E L SW NE 7-31-6	*	2875
Greenwood County—		
Altenberk et al Pees 5 NEc SE 12-24-12	10	1670
R. G. Gillespie Swanson 6 C S L E½ SE 20-23-13	35	1699
Swanson 7 C E L E½ E½ SE 20-23-13	50	1710
Hookey et al Dehlinger 2 NWc NE SW 32-23-13	10	1720
Dehlinger 3 C N L N½ NE NW 32-23-13	*	1780
Dehlinger 4 C E L NE NW 32-23-13	60	1750
Ireland et al Sharpe 1-B NEc NW NE SW 7-24-13	40	1660
Marshall Oil Co. Dame 9 C NW 12-24-12	15	1725
Ed Parkins et al Zink 1 SEc NE 24-23-9	*	2375
Polhamus et al Marshall 3 C S L SW SW 34-24-9	200	2320
Rhodes et al Boyer 1 NEc SE SE 27-25-10	*	2095
Sharples et al Richardson 1 SWc 29-26-12	*	2205
Theda Oil Co. Snowden 2 SWc NW NW 3-23-13	25	1830
Snowden 8 NWc SW 10-23-10	40	1615
Lyon County—		
Producers & Refiners Corp. Gardner 1 SEc SW 17-21-13	*	2265
Woodson County—		
Empire Gas & Fuel Co. Hissler 3 NWc 23-23-13	50	1845

New York, Oct. 23.—The Marine Oil Co. has posted the 2 per cent quarterly dividend to be paid stockholders Nov. 5 of record Nov. 1.

Elk County, Kansas, Home Of Brand New Oil Field

AUGUSTA, KAN., Oct. 24.—Another oil pool has been found in Kansas, Elk County getting the strike, following shortly after successful wildcat tests in Butler and in Cowley counties.

The test of Junker and associates in the Northeast corner of section 21-28-9, Elk county, is good for 150 barrels daily at 2760 feet. The well has no gas pressure. So far there has been no evidence of water. The oil tests 2806 degrees Baume.

Along with this the first failure was credited to the Hazlett pool of Butler county, discovered by the Phillips Petroleum Company some two months back. This well, drilled by the Ramsey-Lloyd on the Cain fee in the northwest corner of the southwest quarter of section 5-24-5, failed to get production in formation found around 2460 feet. The well is a mile east of the first well of the pool, drilled in the northeast corner of section 1-24-4.

To the west, however, the Phillips Pet. Co. has completed No. 4 Hazlett for 800 barrels at 2454 feet. This well is in the southwest corner of the southeast of the southeast quarter of section 1-24-4. One location west of this Gypsy Oil Co. has completed its first well in this new pool, No. 1 Hazlett good for 800 barrels. SWc W½ SE 1-24-4 at 2450 ft.

Development in Cowley county, where the Empire Gas & Fuel Co. got production in its wildcat test on the Brown farm, has brought nothing new. Several wells are drilling around the first well. The Empire has a line to the well now, which is reported making around 400 barrels daily.

The older fields of Kansas are showing only normal activity with completions showing for small initial production.

A check of new activity, however, shows many new rigs going into the new fields. Butler county has 10 new rigs for the week. Greenwood county has 11.

KANSAS DEVELOPMENT FOR THE PAST WEEK BY TABULATION

County	New rigs	Abd.	Completions	Producers	Gas wells	Failures	Initial Prod. bbls
Butler	10	..	6	2	..	4	910
Cowley	2	..	1	..	..	1	...
Elk	1	..	..	..	..	..	...
Greenwood	11	..	14	10	..	4	470
Lyon	.	..	1	..	..	1	...
Woodson	..	..	1	1	..	..	50
Totals	24	0	23	13	..	10	1,430
Last week	14	0	8	5	0	3	1,185

AXELSON MACHINE OFFICIALS ARE TOURING OIL COUNTRY

Tulsa, Okla., Oct. 25.—Coming here from St. Louis where the company has a sucker rod factory, Charles D. Wagner of Los Angeles, general sales manager of the Axelson Machine Company, is in Tulsa on one of his periodical business trips. Mr. Wagner was accompanied from Los Angeles to St. Louis by J. C. Axelson, general manager of the company. Mr. Axelson stopped off in St. Louis and will come on to Tulsa the first of next week.

While in Tulsa Mr. Wagner and Mr. Axelson will confer with H. W. Platenberg, who is in charge of the Mid-Continent office of the Axelson Machine Company located in suite 520 Kennedy building. Mr. Platenberg took over the Tulsa office in June of this year and his territory includes Kansas, Oklahoma, Texas, Louisiana and Arkansas.

From Tulsa Mr. Axelson and his party will proceed south to Texas where a stop will be made in Houston. After completing a tour of the Mid-Continent and becoming acquainted with conditions in this section the return journey to Los Angeles will be made. In addition to the Tulsa branch, the Axelson Machine Company also maintains direct factory branches at Taft, Coalinga and Bakersfield in California.

Bill Long Takes Little 3000 Mile Auto Trip

Tulsa, Okla., Oct. 25.—An automobile tour that carried him over more than 3000 miles through sections of the Southwest and Middle West and into the Appalachian region of West Virginia and Pennsylvania has just been completed by W. G. (Bill) Long of Tulsa, treasurer of the Robinson Packer Company, and well known in oil country circles. Mr. Long made the trip in a Nash roadster and was accompanied by his wife.

Leaving Tulsa on September 14 the route was first by way of St. Louis where Mr. Long visited with the Continental Supply Company officials. From St. Louis the direction taken was northeast to Toledo, Ohio, where is located the general offices of the National Supply Company. Columbus, Ohio, was the next stop after Toledo where Mr. Long met up with Fred Crawford of the Ohio Fuel Oil Supply Company. A side trip to Terre Haute, Indiana, was made as the place formerly was the home of Mr. Long.

After leaving Columbus the route followed was across the state line into West Virginia and on to Clarksburg, also an old stamping ground of Mr. Long as the place was his residence for five years. The journey ended at Pittsburgh where a visit was made to the Benedum-Trees companies. The return trip to Tulsa was completed on the morning of October 15.

Mr. Long combined business with pleasure on the trip as Robinson packers are distributed in the oil country through the Continental, National, Frick-Reid and other supply houses, as well as through the company's own sales organization.

J. Arthur Hall, president of the J. A. Hall Company, recently organized, has returned to Tulsa after spending the summer months in the east. He was formerly president of the Oklahoma Producing and Refining Corporation.

CENTRAL WEST TEXAS PRODUCTION

Fort Worth, Texas, Oct. 23.—The daily average production of the various fields in Central West Texas for the past week is divided as follows:

STEPHENS COUNTY PRODUCTION

	Barrels
Mid-Kansas Oil & Gas Company	4,660
The Texas Company	4,230
Gulf Prod. Company	2,715
Humble Oil & Refining Company	2,700
Prairie Oil & Gas Company	2,380
Magnolia Petroleum Company	1,560
Texas Pacific Coal & Oil Co.	1,515
Fensland Oil Company	925
Sun Company	650
E. A. Landreth & Company	390
Sinclair Oil & Gas Company	380
Pierce Oil Corporation	230
Empire	125
Simms Oil Company	125
White Oil Corporation	60
Miscellaneous	10,905
Total	33,550
Last week	33,850

MISCELLANEOUS PRODUCTION

	Barrels
Strawn-Palo Pinto County	1,420
Moran-Shackelford County	1,245
Brown County	815
Corsicana	570
Mitchell County	190
Thrall	140
Coleman County	95

EASTLAND COUNTY PRODUCTION

Texas Pacific Coal & Oil Co.	1,400
Sinclair Oil & Gas Company	1,080
Prairie Oil & Gas Company	1,060
Gulf Production Company	630
The Texas Company	470
Magnolia Petroleum Company	465
Humble Oil & Refining Company	160
Sun Company	45
Mid-Kansas Oil & Gas Company	40
Simms Oil Company	35
Empire Gas & Fuel Company	30
Miscellaneous	7,015
Total	12,430
Last week	12,650

DESDEMONA AND PIONEER PRODUCTION

	Barrels
Magnolia Petroleum Company	925
Humble Oil & Refining Company	490
The Texas Company	290
Mid-Kansas Oil & Gas Company	285
Texas Pacific Coal & Oil Company	145
Prairie Oil & Gas Company	120
Sinclair Oil & Gas Company	75
Empire Gas & Fuel Co.	30
Sun Company	15
*Miscellaneous	7,395
Total	9,760
Last week	9,880

*Includes Pioneer Production.

Drilling Reaches Low Level In Central West Texas

FORT WORTH, TEXAS, Oct. 24.—With drilling operations at a low level in the Central West Texas district—Stephens and Eastland Counties and Desdemona—the production of the fields is being noticeably reduced and new wells being brought in are exceptionally few in numbers.

During the past week the Eastland and Ranger sections of Eastland County only reported one producer, and it was a small gasser, while the seven completions scored in Stephens County showed a total initial production of only 470 barrels of oil and 10,000,000 cubic feet of gas. The Desdemona field registered its first completion in several weeks, and it was brought in by Kirk & Brewer on the Westmoreland farm swabbing 100 barrels from an oil sand drilled into at 2810 feet to 2835 feet. This well has a total depth of 3000 feet.

The Stephens County field reported a slump of about 250 barrels in daily average pipe line runs during the past week. The largest producer completed in the county last week was The Texas Company's No. 12 J. S. Pierce, located between Breckenridge and Necessity, good for about 200 barrels flush production from the top of the lime at 3350 feet. The same company's No. A-31 J. W. Parks has been completed good for 125 barrels natural at 3220 feet. On the Black Brothers ranch, The Texas Company completed its No. 17 well good for 10,000,000 cubic feet of gas at 3295 feet.

The Eastland and Ranger section of Eastland County reported 28 tests actively underway early this week, while 20 tests have been shut down for various causes. Drilling reports on these two fields show 9 rigs up, but many have been standing idle pending the return of a better crude market. The May & Clayton Drilling Company's No. 1 Higginbotham has been completed making 3,000,000 cubic feet of gas after shot of 60 quarts from 3285 to 3305 feet. The gas production is coming from 15 feet of sand picked up at 2965 feet.

STEPHENS COUNTY COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Channel Oil Co. Moon 1	*	4210
King, Booth & Nesbit Abney 2	45	3265
Lee Oil Co. Walker & Caldwell 2	40	3210
Texas Pacific Coal & Oil Co. J. H. Bratton 2	5	4275
The Texas Company:		
Black Bros. 17	¶10	3295
Curry 9	55	3215
Parks A-31	125	3220
Pierce 12	200	3350

EASTLAND COUNTY COMPLETIONS

May & Clayton Drilling Co.'s Higginbotham 1	¶3	3385
C. M. Root's L. R. Hough 1	*	3650

DESDEMONA COMPLETION

Kirk & Brewer Westmoreland 1	100	2835

DESDEMONA DRILLING REPORT

Harrison et al's Tidwell 1, sd 3520 ft. Hodnett et al's Allen 1, rig.

Kokomo Petroleum Co.'s Comer 1, rigging up.

Leon Valley Oil Co.'s Mrs. M. C. Haynes 2, dr 1465 ft.

Magnolia Petroleum Co.'s N. E. Payne 1, dr 500 ft.

STEPHENS COUNTY DRILLING REPORT

(Note: This report does not include wells that have been shut down indefinitely.)

Buckeye Development Co.'s Walker 7, fsh bailer 3250 ft. Benson Drilling Co.'s Thomas 2, run cas 3210 ft. Booles & Bartrug's W. W. Copeland 1, dr 3345 ft. Bateman & Scott's Jones 2, dr 1980 ft.

Coogan et al's Crowley 1, dr 1300 ft.

Dawson & Davis' Cougher 1, fsh collapsed cas 3590 ft. Denson & Spurck's Black 1, dr 3200 ft. Dallas Stephens Oil Co.'s Norton 1, dr 3475 ft. Drake Oil Synd.'s Drake 1, mudding cas 2995 ft.

Equity Pet. Corp.'s Brown 3, jkd hole, skidded rig, td 1685 ft. Eliasville Pool Oil Synd.'s Douglas 1, dr 3200 ft.

Fred B. Foster & Co.'s Shipley C-1 dr 1670 ft. Fink & McFarland's R. O. Jackson 1, showing oil and water, dr 2265 ft.

Hart Mexia Synd.'s Lee 1, dr 425 ft. Haile, Knight & Callahan's O. Curry 4, skidding rig, td 585 ft. Haile & Knight's Shipley 2, dr 1165 ft. Humble Oil & Ref. Co.'s Curry B-2, mudding cas 3085 ft; Curry B-3, dr 2300 ft; Mrs. J. B. Hart 5, 1600 ft oil in hole after shot 150 qts from 3220 to 3295 ft. Hellenic Oil Co.'s Burgess 1, plugging to abn 2955 ft.

Kelly et al's Bruce 1, co 3815 ft.

Livingston et al's Hodges 1, fsh cas 1930 ft. E. A. Landreth Co.'s Shipley 2, dr 1265 ft.

Maryland Drilling Co.'s Akin 1, co 3340 ft. Miller Bros.' W. T. Gurney et al 1, sd 3900 ft. Mid-Kansas Oil & Gas Co.'s G. W. Hill (Acct. 1) 9, fsh cas 3895 ft; S. H. Hill 4, dr 2420 ft; Homer Lee 1, mudding cas 3330 ft. Magnolia Petroleum Co.'s J. M. Rush 10, dr 2790 ft; Rush 11, dr 2310 ft; C. N. Guest 5, showing oil and gas, dr 3350 ft.

Nourse & Sweeney et al's C. P. Jones 1, sd 1070 ft.

Oregon-Texas Oil Co.'s Jones 1, sd after shot 3420 ft.

Pay-Tex Petroleum Co.'s Lane 3, co 3130 ft. Prairie Oil & Gas Co.'s T. L. Adams 1, fsh tools 3800 ft; Atkins 12, sd 1490 ft. Pennock Oil Co.'s Moore 1, fsh cas 2510 ft; Jones 1, plugging back from 3095 to 3030 ft. Petroleum Producers Assn.'s Corbett 1, spudding.

Roxana Pet. Corp.'s Corbett 1, swedging cas 4270 ft. Revere Oil Co.'s Ackers 3, dr 2445 ft.

Snowden & McSweeney's Ackers (Acct. 1) 9, fsh bailer 3120 ft. Swensondale Oil Co.'s Swenson 23, dr 1700 ft.

Texas-O-Wa Synd.'s Lee 2, dr 1096 ft. The Texas Co.'s Day 11, flowing 25 bbls oil, dr 3165 ft; Fite 1, dr 2535 ft; W. M. Houston 3, plugging back from 3120 ft; Womack 4, fsh cas 2195 ft; Lauderdale 9, dr 2585 ft; Texas Pacific Coal & Oil Co.'s T. L. Adams 5, fsh tools 3610 ft; A. S. Veale 3, sd 3092 ft. Texas Consolidated Oil Co.'s Martin 3, ur 2670 ft; Martin 4, sd for water 2715 ft.

Palo Pinto Dalton Ranch Well Has Produced 101,000 Barrels

FORT WORTH, TEXAS, Oct. 24.—The lone producer on the R. S. Dalton ranch in Palo Pinto County which was brought in by the Dalton Oil Company April 21 of this year with an initial production of 1250 barrels natural from a sandy lime pay at 3965 feet and now surrounded on three sides by more than a half dozen dry holes, has passed the 100,000-barrel mark in production and has earned for its owners nearly a quarter of a million dollars.

This well has delivered to the Sinclair Pipe Line Company 101,658 barrels of high gravity crude oil, thereby netting its owners approximately $202,662.50 since the date of its completion up to October 1, taking into consideration the various changes in the posted price of crude. In addition to this amount, the company is using crude from the well to drill an offset test, which is now fishing with a total depth of 3715 feet, and is selling oil to a number of other operators in the vicinity of the producer for boiler fuel. Taking into consideration the revenue obtained from oil sold in the field, the Dalton producer has earned close to a quarter million dollars for its owners.

One striking feature of the well is that it has more than 500 feet of open hole, and has produced continuously without having the tools run in the hole, or tampered with in any way since the day it blew in. From the date of completion to July 1, its deliveries to the Sinclair Pipe Line Company averaged 762 barrels daily, while up to October 1 it averaged 635 barrels. Late last week it was averaging 430 barrels daily, in addition to small amounts being sold in the field.

The initial performance of this well led up to a wild scramble for nearby acreage, and prices soared to almost a prohibitive figure before it was all taken. Drilling activity commenced shortly afterward on a large scale, but so far none of the operators have been able to pick up the Dalton pay, although more than a half dozen tests have been drilled below the 4000 foot level. Magnolia Petroleum Company's No. 1 Turner-Green, located about half a mile north of the Dalton producer, has been the nearest thing to a strike, as it showed good for 10 barrels daily through tubing from a thin sand formation picked up at 4010 feet.

EASTLAND AND RANGER DRILLING REPORT

Associated Oil Co.'s L. C. Downtain 1, fighting cave 1775 ft.

Barkley et al's Wright 3, sd 3635 ft; Wright 4, rig. George Beggs et al's H. L. Gibson 2, dr 740 ft. Bettis & Anderson's G. W. Martin 1, sd for water 735 ft. Belport & Manly Interests' C. M. Vangeem 1, dr 1875 ft.

H. R. Courtwright et al's L. Kellett 1, sd for line 1670 ft. Car-De-Zone Oil Co.'s L. R. Hough 2, dr 2145 ft; Agnes Harwood 1-A, dr 2520 ft; J. H. Latham 1, trying to shut off water after shot 3435 ft. Cardinal Oil Co.'s J. A. Brown 3, rig. E. A. Clayton et al's C. B. Whitten 1-B, sd 1465 ft. Colquitt & Shinholt's C. L. Downtain 1, dr 590 ft. G. G. Chastain et al's J. E. Nix 1, fsh cas 1195 ft.

Drury Pet. Co.'s T. E. Luse 1, rig burned 2840 ft. Day & Everest's W. F. Davenport 1, dr 3425 ft; A. F. Loftus 1, ur cas 410 ft. Daugherty & Clark's Jacob Lyerla 1, dr 530 ft. Duquesne Oil Corp.'s J. L. Johnson 1, rig.

Eastland Oil Co.'s G. W. Martin 4, sd 3160 ft; Martin 9, rig; Martin 11, sd 1200 ft. W. T. Eby Interests' Paul Chastain 1, sd 1910 ft.

Garrett & Smith's T. L. Overby 1, sd 3365 ft. Gordon Petroleum Co.'s S. C. Bond 2, dr 1275 ft; J. W. Caudle 2, dr 1890 ft; Caudle 3, dr 1195 ft.

Hagaman et al's Hagaman 3, dr 2880 ft. Jas Haynes et al's C. B. Whitten 1, dr 1045 ft.

J. U. Johnson's J. C. Chandler 1, rigging up.

S. J. Knepley et al's G. M. Kimbrough 1, dr 1800 ft.

Mook-Texas Oil Co.'s G. L. Garrett 1, dr 2765 ft. Miller Oil Co.'s Watson 1, sd 1580 ft. Mastex Oil Co.'s Hill 1, sd 3520 ft.

New Southern Oil Co.'s W. J. Baumgardner 3, fsh 3475 ft. Nixon Oil Co.'s C. T. Webb, rebuilding dk 2260 ft.

Plateau Oil Co.'s C. O. Owens 2, fsh cas 3185 ft; Owens 3, rig. **Panhandle** Ref. Co.'s C. O. Owens 1, dr 2725 ft; Owens 2, dr 1810 ft; Owens 3, dr 260 ft.

C. M. Root's L. R. Hough 2, dr 1845 ft. Root Drilling Co.'s W. N. Seaborne 1, dr 520 ft. Root, Rhodes & Sykes' E. E. Cowan 1, dr 670 ft; M. Hill 1, rig; H. L. Gibson 4, timbers.

States Oil Corp.'s G. W. Martin 4, sd 3235 ft; S. C. Bond 2, dr 1960 ft. Sinclair Oil & Gas Co.'s J. W. Davis 6, rig. Slay, Simon & Smith's G. W. Rose 1, sd 3495 ft. Marshall Spoonts' McCleskey 1, sd 2005 ft.

Texas-Iowa Oil Co.'s J. C. Laney 1, making 3,000,000 ft gas, sd 2650 ft. Tex-Land Oil Co.'s C. U. Connellee 1, sd for cas 1880 ft. Texas Pacific Coal & Oil Co.'s W. T. Barker 4, dr 985 ft.

Frank Vance et al's C. Owens 1, ur cas 2150 ft.

Westland Synd.'s J. R. Stubblefield 1, sd for water 2055 ft. Weatherall Prod. Co.'s Fulfer 1, sd 3300 ft; Fulfer 2, sd 185 ft.

KENTUCKY PRODUCTION HOLDINGS ARE SOLD FOR $175,000

Wichita Falls, Texas, Oct. 24.—The producing properties of the Kentucky Production Company on the W. H. Taylor tract in the northeast edge of the Texhoma pool in Northern Archer County were purchased last Saturday by the Iowa Park Producing & Refining Company of Iowa Park for a consideration of $175,000. The deal involves a greater amount of production than has ever before changed hands in the history of oil development in Archer County.

The Taylor tract acquired by the Iowa Park Producing & Refining Company consists of 25 acres with five wells producing from the 1600-foot oil sand. These wells gauged 520 barrels during the 24 hours prior to the day the properties changed hands. The first well was brought in on the lease more than a year ago, and the balance were drilled in early this past spring and summer, except for one completed last month with an initial production of 100 barrels. The new owners will run the oil produced from the lease through their refinery at **Iowa Park.**

Three Absorption Plants In Eastland County Pool

Fort Worth, Texas, Oct. 23.—Operators in the Pioneer field in the southeast corner of Eastland County owning wells that produce any appreciable amount of "wet" gas will be afforded a ready market and better prices for their entire output within another month or two, as there are now three 10,000,000-cubic foot capacity absorption gasoline manufacturing plants nearing completion in the field.

The Brown Gasoline Company of Dallas is erecting a two-unit absorption plant on Brown & Company's W. A. Eakin lease, located in the east edge of the town of Pioneer, and has announced that same will probably be in operation before December 1. This plant is situated on the M. K. & T. railroad, and will cost approximately $100,000. Gas contracts have been made for practically the entire production of wells on the Townsite, and gathering lines are being strung to transport the gas to the plant.

Construction work is progressing rapidly on the Invincible Oil Corporation's two-unit absorption plant on the S. D. Nelson tract in the E. T. Railway survey about three quarters of a mile northeast of Pioneer, while the McMan Oil and Gas Company's 10,000,000 cubic foot capacity absorption, located on the J. N. Gooch tract due west of Pioneer, will probably be the first completed.

Lone Star Absorption Plant Has Been Started

Dallas, Texas, Oct. 23.—Constructoin work on the Lone Star Gas Company's 15,000,000 cubic foot daily capacity absorption plant near the town of Brazos in Eastern Palo Pinto County on the Texas Pacific railroad has been started, and present plans call for its completion by the first of the year. The plant is being erected on the W. M. Gilbert tract in the George Green survey about one mile from town, at an approximate cost of $75,000. It is designed so that additional units can be built to bring the capacity up to 40,000,000 cubic feet daily. It is reported that the yield per 1000 cubic feet of gas produced in the Brazos field is less than a half gallon. The stripped gas from this plant will be diverted into the company's commercial gas main which helps to serve the fuel needs of more than 40 cities in North Texas. Paul Wright is in charge of erecting the plant for the company.

NORTH TEXAS FIELDS

NORTH TEXAS PRODUCTION

Wichita Falls, Texas, Oct. 23.—The daily average production of the various North Texas fields for the past week is divided as follows:

BURKBURNETT PRODUCTION

	Barrels
Magnolia Petroleum Company	3,365
Kansas & Gulf Company	1,815
Gulf Prod. Company	1,310
The Texas Company	1,300
Humble Oil & Refining Company	1,100
Panhandle Refining Company	750
McMann Oil & Gas Company	665
Lewis Oil Corporation	585
Texhoma Oil & Refining Company	535
Oklahoma Petroleum & Gasoline	535
Hobbs Oil Co. (Middle States)	475
American Refining Company	440
Skelly Oil Company	395
Ryan Petroleum Corp.	340
White Oil Corporation	90
Miscellaneous	13,275
Totals	26,975
Last Week	26,975

ELECTRA PRODUCTION

The Texas Company	6,500
Magnolia Petroleum Company	3,810
Empire Gas & Fuel Company	3,020
Hobbs Oil Company	2,650
Gulf Production Company	1,100
Griswold Oil Company	865
Humble Oil & Refining Company	300
Fort Dearborn Oil Company	135
Panhandle Refining Company	85
Texhoma Oil & Refining Company	80
Miscellaneous	4,680
Totals	23,225
Last week	21,590

YOUNG COUNTY PRODUCTION

Roxana Petroleum Corporation	1,550
Ralco Oil Company	905
Penn Cities Oil Company	560
Cosden Oil & Gas Company	495
Panhandle Refining Company	480
Fred B. Foster & Company	410
Mahlstedt Mook Oil Company	390
Godley Oil Company	350
Tyrell Oil Corporation	345
Seaboard Oil & Gas Company	315
Conner et al	275
Sun Company	270
Oklahoma Pet. & Gasoline Co.	225
Eureka Producing Company	250
North American Oil & Ref. Co.	220
Mutual Oil Company	200
Simms Oil Company	200
Gulf Production Company	180
Hemphill Interests	175
Emerich Oil Company	170
Pomona Mutual Oil Company	165
Betrand et al	160
Revere Oil Company	145
The Texas Company	135
Mann et al	135
Miscellaneous	1,690
Total	10,315
Last week	10,495

Northern Archer County Now Is Drawing North Texas Play

WICHITA FALLS, TEXAS, Oct. 24.—Recent developments in Northern Archer County, principally in the Ferguson pool, has temporarily distracted interest of North Texas oil operators from the Electra field and other pools in Wichita County, with the result that the former section is enjoying more leasing and drilling activity than has been the case in several years.

Wildcat tests are getting underway in remote parts of Archer County, while a few tests are being drilled in territory that has been considered condemned because of dry holes drilled during the "boom days" when small production was purposely passed up.

Particular attention is being paid to the shallow sands while drilling, and many of the new tests being drilled are going down with star and spudding machines. During the past week the Alfalfa Oil Company's No. 1 L. C. Herron picked up an oil sand from 906 to 909 feet, and is now making a test, while Henshaw, Clark et al's No. 2 Nora Mankins is reported to have pumped at the rate of 30 barrels daily early this week after picking up an oil sand from 660 to 665 feet.

The largest producer registered from the South Electra field in several weeks was brought in last week by the Petroleum Producers Company on its No. 12 W. T. Waggoner in Section 34, flowing and swabbing 410 barrels from 1615 to 1628 feet. The water situation in the South Electra field was partially relieved last week for the operators that have lines or connections with lines that reach to Beaver Creek, as the stream took a big rise from rains that occurred near its mouth. However, surface tanks in Wichita County continue as dry as ever, and a few of the operators are holding up developments for an ample supply of water.

Young County Fields

Young County oil fields reported a total of 297 producing wells during the past week, and the daily average pipe line runs from these wells amounted to 10,315 barrels, or a decrease of 180 barrels. The Bunger district and adjoining pools to the east have 143 producers with a combined daily average of 6600 barrels, while the South Bend field maintained an average of 3715 barrels daily from 154 producers.

In the South Bend field, Roxana Petroleum Corporation's No. 2 J. N. Boozer, located less than a half mile south of the town of South Bend, came in late last week flowing natural at the rate of 480 barrels of oil and about 3,000,000 cubic feet of gas after drilling several feet into an oil sand at 2200 feet. The initial performance of this well ranks above the average for the 2200-foot sand in the field. On the Scott tract, a short distance to the south and east, the North American Oil and Refining Corporation's No. 10 well made about 110 barrels of oil during the first 10 hours after being drilled in, but went to salt water before the first 24 hours. It also produced from the 2200-foot sand, but was drilled too deep.

In the Bunger district, a 10,000,000 cubic foot dry gasser has been uncovered by Burton and associates on the J. J. Fawk tract in Section 31 of the D. W. Russell Survey at 2305 feet. This well is located in semi-wildcat territory, about 1½ miles west of Herron City and north of Empire's abandoned gasser on the Lisle farm. The Fawk well showed good for 1,000,000 feet gas at 2397 feet and increased to 10,000,000 feet deeper. C. R. Tyrell and associates' No. 1 W. A. Ribble, located east of the Brazos river, is flowing by heads at the rate of 100 barrels daily after shot of 30 quarts from 2780 to 2820 feet. This well is an important extension to the proven area of the Bunger district. Further south and east near the Pitzer & West producers on the Costello ranch, Cline Oil Company's No. 1 Costello is making 2,000,000 cubic feet of gas and showing considerable oil from five feet of sand picked up at 1585 feet.

Little Work at Burkburnett

Drilling activity taking place in the Burkburnett fields at present is greatly scattered, with only a small amount of new production being added from week to week. During the past week the Sunshine Hill district contributed two 20 barrel pumpers from the 900-foot oil sand, while a 6 barrel pumper was completed by Magnolia Petroleum Company on the Hugh Reilly farm at 619 feet. About five miles due north of Sunshine Hill, the Gulf Production Company is making a deep test on the E. A. Dale farm in the Wm. N. Thorn Survey, Abstract 293, and late last week was drilling below 2060 feet. In the northeastern corner of Wichita County three tests are rigging up on the Henry Hastie Survey, Abstract 92, to re-test territory that was condemned by holes hurriedly drilled during the "boom days."

In the Parker pool in the south part of Wichita County below Iowa Park, Patterson & Steelsmith's No. 4 Barbara Parker has been completed good for 25 barrels on the pump from 790 to 799 feet. About five miles southeast of this producing area and due east of Kemp City, the Kellogg Oil Company's No. 1 J. A. Watkins, located in Section 46, H. B. Blach Survey, drilled into an oil sand from 1204 to 1206 feet early this week, resulting in the hole filling half full of oil. The owners are cleaning out to test, and indications are that it will make a good pumper.

MISCELLANEOUS PRODUCTION

	Barrels
Holliday-Archer County	3,310
Kemp-Munger-Allen	1,790
Iowa Park	715
Petrolia	310

Tulsa, Okla., Oct. 23.—Directors of the Southern States Oil Co. have authorized the monthly cash dividend of 1 per cent and for the current quarter allowed an 8 per cent stock allotment to all stockholders of record Dec. 13, 1922. The cash dividend is payable Nov. 2[illegible] to stock of record, Nov. 1.

State of Texas Objects to New Wells in Red River Disputed Area

WASHINGTON, D. C., Oct. 23.—Attorneys for the State of Texas have filed objections to the Supreme Court order authorizing Frederic C. Delano, receiver in the Red River boundary dispute, to grant permits for the sinking of wells on receivership lands north of the main channel of the river.

It is the contention of the Texas counsel that the order should not be granted until the court has passed upon the question of where the south bank of Red River lies and where the northern boundary of Texas is located. It is claimed that until the north and south banks of the river are determined, it is impossible to determine the medial line of the stream. At the same time the State reiterates its previous claim that the boundary line between Texas and Oklahoma, according to the treaty with Spain, should be at the waters edge on the south side of the main channel. It is contended that the medial line of the river, on the Government contour maps, is in some places as much as a thousand feet south of the water's edge.

The Texas attitude is that this is one of the principal issues in the case, involving a large tract of land, and that the order would overrule the Texas contentions prior to a determination of the issue.

The State of Texas has also offered objections to the suggestion recently made to the court by the Government's attorneys, that the Government be permitted to bring up the matter of changes occurring in Red River since the taking of proofs, asserting that the opening of such a question would indefinitely postpone final determination of the case.

BURKBURNETT COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Baldwin Bros. Kennedy 2....	20	931
Magnolia Petroleum Company:		
H. Reilly 80	6	619
J. E. Roller 39	*	610
Scott Pet. Co. Kennedy-Langford 4	20	978

ELECTRA COMPLETIONS

Buchanon & Lyons' Mrs. G. Jennings 1	*	1826
Clover Oil Co.'s W. T. Waggoner 4	*	1965
Green & Dale's Beaver-Electra 3	*	971
Gulf Prod. Co.'s		
G. Jennings 5-A	10	1543
G. Jennings 6	*	2024
W. T. Waggoner 1-E.....	*	1939
Harper et al's J. & J. Waggoner 1	*	2005
Hartford Trust's:		
S. B. Burnett 5	5	494
S. B. Burnett 6	15	699
Houston Oil Co.'s W. T. Waggoner 4	20	1614
Ladd & Hannon's W. T. Waggoner 1-A	*	2000
Stanley McGregor's J. & J. Waggoner 2	10	1528
McKenna & Moore's W. T. Waggoner 1	*	2051
J. O'Neil's Waggoner 5.....	125	1929
Petroleum Prod. Co.'s W. T. Waggoner 12	400	1629
Rio Bravo Oil Co.'s W. T. Waggoner 5-A	175	1954

ARCHER COUNTY COMPLETIONS

F. & H. Synd.'s W. P. Ferguson 3	15	1450
The Texas Co.'s W. Beck 7..	100	1606
White Oil Corp.'s K. & Kempner 1	125	1730
Kentucky Prod. Co.'s W. H. Taylor 6	100	1609

YOUNG COUNTY COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Mann et al's Whittenburg 4..	10	1870
Nash & Windfohr's R. M. Williams 3 .....¶5-175		2570
Tyrell Oil Corp.'s Ribble 1....	100	2820
Roxana Pet. Corp.'s N. Boozer 2 ... .¶2-480		2202

K-M-A & IOWA PARK COMPLETIONS

A. B. A. H. Synd.'s H. Munger 8	100	1619
Buffalo Texas Oil Co.'s W. Parker 1	*	2170
Patterson, Steelsmith & Orth's B. Parker 4	25	798

ARCHER COUNTY DRILLING REPORT

Alfalfa Oil Co.'s L. C. Herron 1, testing oil sand from 905 to 910 ft, td 950 ft.

W. H. Barton & Co.'s S. M. Gose 3, dr 1140 ft. Burton & Ruff's L. F. Wilson 1, dk.

Dalmar Oil Co.'s C. Plowman 4, lcn. Darr et al's E. N. Birdwell 2, showing oil fsh 1764 ft. Dee & Bellport's S. M. Cowan 1, set cas 3010 ft. Dillday & Knight's W. P. Ferguson 2, lcn.

E. Evert's Veith 1, sd 1510 ft.

F. & H. Synd.'s W. P. Ferguson 4, dk; Ferguson 1-B, dr 200 ft.

Henshaw et al's T. Mankins 1, moving in rotary; Mankins 2, running tubing to test 666 ft. Humble Oil & Ref. Co.'s K. & Kempner 1, rigging up.

K. D. Oil Co.'s W. P. Ferguson 1, lcn. Kentucky Oil Assn's W. H. Taylor 6, rigging up to pump 1606 ft; Taylor 1-A, reset cas 1635 ft; Taylor 2-A, dk.

Lanning, Moninger et al's T. Wilson 1, lcn. Lipe et al's W. L. Andrews 2, dr 660 ft. Looney & Looper's L. F. Wilson 1, set cas 1275 ft.

Maxon Oil Co.'s W. H. Taylor 2, dr 1165 ft. Morrison et al's Coleman 1, testing oil sand from 1270 to 1273 ft.

Plate et al's R. E. Farmer 1, sd 1570 ft. J. J. Perkins' T. B. Wilson 1, dk.

Smith et al's G. T. Netherton 1, sd 790 ft. J. I. Staley's Kemp & Kempner 3, lcn; K. & Kempner 4, lcn; W. P. Ferguson 1, dr 1410 ft. Sunshine State Oil & Ref. Co.'s W. P. Ferguson 3, dr 210 ft. Swastika Oil Co.'s J. T. Richardson 1, dr 1710 ft.

The Texas Co.'s W. Beck 10, dr 1405 ft; Beck 11, dr 630 ft; Beck 12, lcn. Texhoma Oil & Ref. Co.'s S. M. Gose 28, sd 1598 ft; Gose 29, dr 1475 ft; Gose 30, dr 1500 ft; J. J. Perkins 1, dr 415 ft.

White Oil Corp.'s K. & Kempner 2, lcn.

BURKBURNETT DRILLING REPORT

Burkburnett Deep Test Oil & Gas Co.'s J. R. Sullivan 1, dk. B. C. & S. Synd.'s (formerly Carter et al) Beach 2, dr 195 ft. Buffalo-Texas Oil Co.'s W. Parker 1, sd for water 2180 ft.

Camp Oil & Gas Co.'s A. F. Dodson 1, plugged back from 1080 to 600 ft and cemented cas; Dodson 2, testing sand 1015 ft; Dodson 3, rigging up.

Grace Oil Co.'s S. M. Daniels 3, 300 ft oil in hole, rigging up to pump, td 1285 ft; Daniels 4, fsh drill pipe 1105 ft.

L. P. (Pink) Hammond's Ferguson 2, rigged up and sd for water. Humble Oil & Ref. Co.'s Schultz 26, using electric power, showed oil from 1633 to 1638 ft, passed up and dr 1660 ft. T. F. Hunter et al's J. Dodson 2, 200 ft oil in hole, dr 1280 ft; Dodson 3, dr 540 ft.

Jetter et al's F. M. Myers 4, rigging up. Judson Oil Co.'s Dodson 11, dk.

Kansas & Gulf Co.'s Schmisseur 6-A, sd 1725 ft.

Lanning & Moninger's W. T. Cropper 12, dr out plug 1255 ft; Cropper 13, set cas 1255 ft.

Murchison & Pigg's Hirschi 2, dr 1155 ft. Magnolia Petroleum Co.'s Anderson 13, dr 1680 ft; Anderson 14, lcn; Staley-Dodson 9, lcn; Roller 40, dr 300 ft; Roller 41, lcn; Staley-Beach 38, lcn; Hugh Reilly 81, dr 235 ft; Reilly 82, lcn; Franklin-Cropper 3, dr 1565 ft; Massey et al's Ramming 1, cemented cas on sand 1650 ft. McNeilly et al's Ramming 1, sd 920 ft.

Chas. F. Noble Oil & Gas Co.'s Woodall 1, dr 2490 ft.

Wm. Priddy's C. Birk 8, sd 1450 ft; Birk 9, fsh 2455 ft. Progressive Oil Co.'s Roller 13, sd 1035 ft.

Sunshine State Oil & Ref. Co.'s Ramming 1, sd 1635 ft. Smith, Haines et al's L. F. Ramming 1, dk.

The Texas Co.'s Evert 1, sd for water 1525 ft.

G. Clint Wood et al's J. E. Holly 1, spudding.

K-M-A AND IOWA PARK DRILLING REPORT

Burns & Gate's J. E. Roller 1, dr 1015 ft.

Roy Carter et al's B. Parker 1, dr 450 ft.

Holbrook & Wood's B. Parker 2, dr 1184 ft.

Kelogg Oil Co.'s J. A. Watkins 1, dr 1060 ft. K-M-A Oil Co.'s H. Munger 17, sd 2060 ft; H. Munger 18, dk.

Minn-Tex Oil Co.'s J .E. Roller 1, lcn; Roller 2, dr 165 ft.

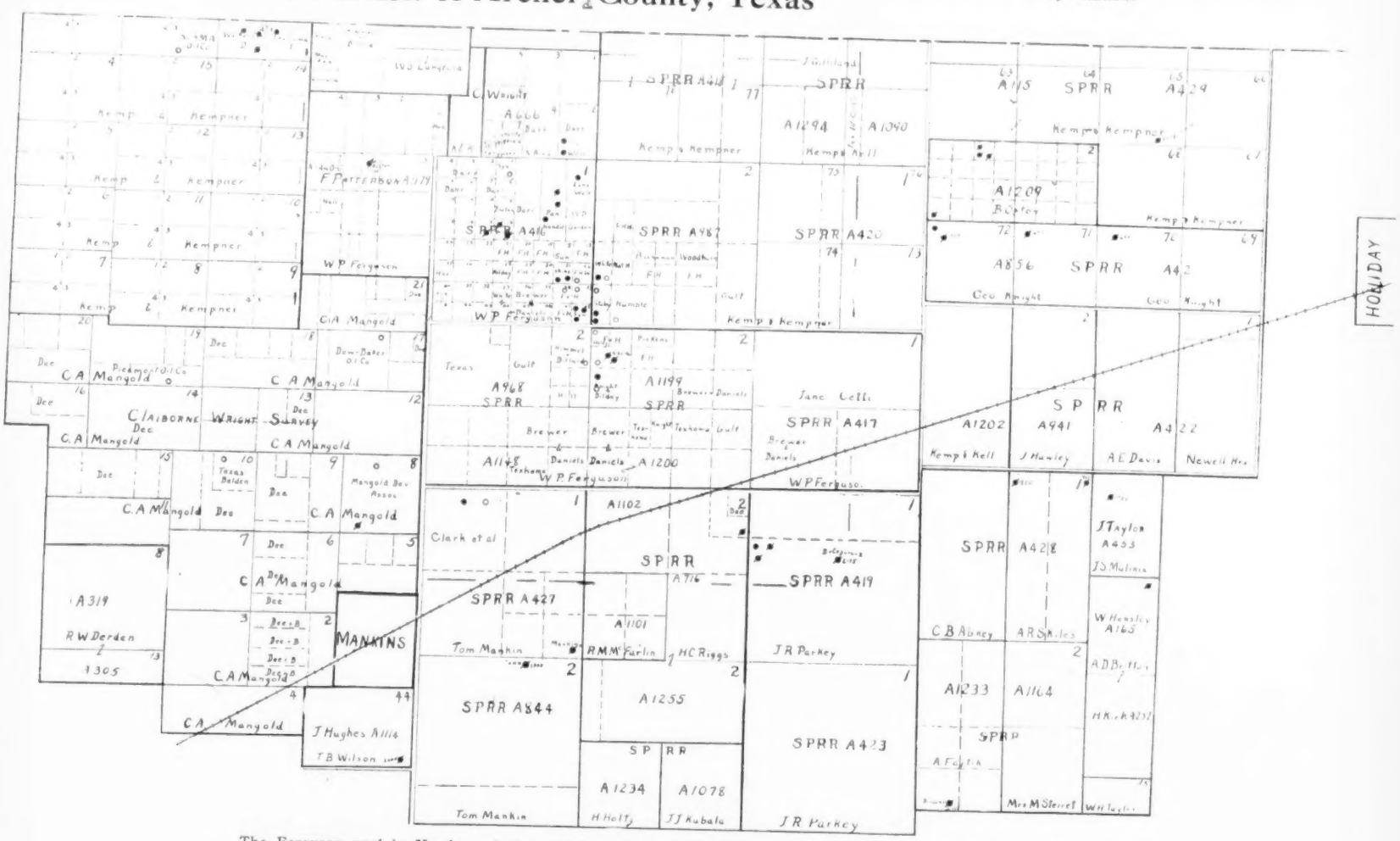
Noble Oil & Gas Co.'s Woodall 1, dr 2475 ft.

Steelsmith & Orth's B. Parker 2, fsh 660 ft.

Texhoma Oil & Ref. Co.'s H. Munger 7, coring oil sand 1625 ft. Tex-O-Kan Oil Co.'s J. A. Kemp 2, dr 1010 ft.

Dr. C. W. Wallace et al's Ferguson 2-A, coring oil sand from 1492 to 1500 ft.

A Portion of Archer County, Texas



The Ferguson pool in Northern Archer County due south of the old K-M-A field now has five distinct producing horizons—500, 643, 1440, 1580 and 1825 feet—with the latter two sands furnishing flowing wells. This pool was discovered early last July by the Freeman & Hampton Syndicate's test in Block 48, Section 1, S. P. Ry. Survey, Abstract 416, good for more than 110 barrels initial production at 1443 feet, and is still pumping about 50 barrels daily. The pool is the newest in the North Texas district, and the scene of much activity at present.

North Texas Crude Stocks Decline

Wichita Falls, Texas, Oct. 23.—Steel storage facilities in the North Texas district, which includes Wichita County and its three adjoining counties and tank farms just across the river in Oklahoma, are slightly less than 39 per cent filled, according to a survey taken on the first day of October. This district has a potential storage capacity of approximately 9,155,000 barrels that belong to the major pipe line companies and independent producers and refiners, and on the first of October contained 3,561,000 barrels of crude stocks. These figures indicate that stocks have been drawn upon for two months in succession, as stocks on September 1 amounted to 3,579,000 barrels, and 3,699,000 barrels were reported in storage on August 1. The latter figure is the record for this year so far, and showed the district almost 40½ per cent filled at that time.

The reduction of crude stocks in the North Texas district during August and September is largely attributed to independent refinery runs being greater than was the case earlier in the summer, along with an unusual demand for North Texas crude from refineries located in other parts of the state and in other states as well. Then the major companies also drew on their stocks to take care of their abnormal summer demand for gasoline, with the exception of The Texas Company, which has been handicapped in moving its large flush production from the Electra field pending the completion of a new 8-inch line from the field to Wichita Falls junction.

The table below shows the status of the crude oil storage situation in the North Texas district for the past seven months:

	Storage facilities in barrels	Stocks on hand in barrels
October 1	9,155,000	3,561,000
September 1	9,155,000	3,579,000
August 1	9,155,000	3,699,000
July 1	9,155,000	3,636,000
June 1	9,155,000	3,591,000
May 1	9,155,000	3,557,000
April 1	9,155,000	3,319,000

YOUNG COUNTY DRILLING REPORT

Andrede et al's W. W. Storm 1, sd 1450 ft. Associated Oil Synd.'s F. Herron 4, dr 1550 ft; and F. Herron 5, rigging up.

J. V. Bailey's Costello Bros. 1, dr 65 ft. Bertrand et al's Whittenburg 3, dr 2210 ft; Whittenburg 4, dk; Wergess 1, co 3040 ft. Brahaney Bros' I. R. Grantham 1, dr 4155 ft. Buchanon et al's Whittenburg 1, dr 3800 ft. Burton et al's J. J. Fawks 1, making 10 million ft dry gas, td 2303 ft. H. Byren's Mahoney 1, fsh 3935 ft.

Cline Oil Corp.'s Costello Bros. 1, dr 1590 ft, 2,000,000 ft gas and showing oil. Ray Colcord et al's J. Kisinger 2, dr 2350 ft. Colpenn Prod. Co.'s J. L. Rhodes 1, dr 3720 ft; Rhodes 2, dr 3630 ft.

Detroit-Mexia Oil Co.'s J. T. Cotton 1, dr 3850 ft. Duquesne Oil Corp.'s R. M. Williams 1, dr 2465 ft. Dyer et al's Whittenburg 2, dk.

Elk Basin Consolidated Pet. Co.'s J. A. Driver 11, fsh 1700 ft.

Fred B. Foster & Co.'s L. L. Durham 1, co after shot 3660 ft; and Whittenburg 1, dr 2050 ft. Fultz & Allbright's T. Carter 1, dr 100 ft.

Gulf Production Co.'s Grantham 1, testing 3930 ft; Carmack 3, dk; J. M. Askew 2, dr 3815 ft.

J. A. Julian et al's I. R. Grantham 1, dr 3780 ft; G. F. Parsons 1, ur 2500 ft.

Leader Oil Co.'s M. R. Jarnagin 1, sd 3520 ft. Lewis et al's C. Grantham 1, dk.

McKinzie Oil Co.'s T. C. Greenwade 1, sd 3995 ft. Mahlstedt Mook Oil Co.'s R. M. Williams 4-A, dr 2055 ft. Mexia Star Oil Synd.'s N. B. Carter 1, sd 200 ft. Monroe Oil Co.'s Mary Cox 1, sd 3400 ft; Jefferies 1, dr 4055 ft; G. F. Parsons 1, sd 2815 ft; G. Stewart 1, dr 660 ft.

Nash & Windfohr's R. M. Williams 2, fsh 2700 ft. North American Ref. Co.'s B. F. Scott 10, flowed 110 bbls oil first 10 hours then went to salt water, testing 2210 ft; W. M. McCow 1, dr 2760 ft.

O'Tex Oil Co.'s G. F. Parsons 1, dr 3790 ft.

Paragon Oil Synd.'s D. G. Vick 1, dr 3195 ft. Penn Cities Oil Co.'s F. Herron 3-A, testing 3150 ft; Herron 1-D, dk; Herron 2-D, fsh 2600 ft. Pitzer & West's Costello Bros. 1, dr deeper 2900 ft.

Ralco Oil Co.'s Roark 3, dk; Driver 9, dr 660 ft. Revere Oil Co.'s Costello Bros. 1, dr 4275 ft; Costello Bros. 2, sd 2780 ft. Roxana Pet. Corp.'s W. C. Bunger 1, dr 3110 ft.

Schimmell et al's J. L. Bratcher 1, dr 1300 ft. Shamrock Oil Co.'s J. A. Driver 1, dr 3730 ft. Simms Oil Co.'s A. L. Lynn 2, dr 4180 ft. Sinclair Oil & Gas Co.'s J. Kisinger 2, dr 330 ft. Snowden & McSweeney's J. J. Shirley 1, fsh 3870 ft. Southland Oil Co.'s J. Hughes 1, dr 3625 ft; F. Herron 1, dk. Standard Petroleum Co.'s McBrayer 1, fsh 3770 ft. Sun Co.'s C. E. Ferguson 1, dr 2450 ft.

S. J. Taylor's Costello Bros. 1, rigging up. Tex-Northwestern Oil Co.'s Wilson-Copeland 1, dr 2005 ft. The Texas Co.'s J. Jones 2, dr 3350 ft; Jones 3, dr 2350 ft; Jones 4, fsh 2070 ft. Tex-Bunger Oil & Ref. Co.'s O. A. McBrayer 1, dr 330 ft. Tuloma Oil Co.'s A. M. Graham 1, fsh 4275 ft. C. R. Tyrell Oil Corp.'s J. S. Williams 3-A, set casing 2980 ft; Williams 4-A, rigged up; Williams 6-A, dk; J. A. McLaren 1, fsh 850 ft; River Bed 1-G, dk.

ELECTRA DRILLING REPORT

Associated Oil Co.'s S. B. Burnett 1, dr 800 ft; Burnett 3, dr 475 ft.

M. J. Bashara's G. B. Ancell 1, sd 2270 ft. Borough & Heydrick's M. A. Barwise 1, dr 875 ft. Bridwell & Heydrick's W. T. Waggoner 18, dr 965 ft. Buffalo Southwestern Oil Co.'s L. P. Douglass 2, dr 1915 ft.

Camp Oil & Gas Co.'s Douglass 3-A, dr 650 ft; Douglass 1-B, half full oil, std 1530 ft; Douglass 2-B, dr 200 ft; H. A. Overall 10, fsh 300 ft. Carter & Fine's J. H. Fisher 1, std 1584 ft, flowing 50 bbls; Fisher 2, dr 750 ft. Clover Oil Co.'s Waggoner 5, rigging up. Culberson et al's J. & J. Waggoner 12, sd 1950 ft.

Davenport & Morgan's J. A. Fisher 1, dk over old hole 815 ft.

Empire Gas & Fuel Co.'s S. B. Burnett 32, dk; Burnett 56, dr 1635 ft; Burnett 57, std 1905 ft; Burnett 60, dr in pay 1910 ft; Burnett 62, dr 1000 ft; Burnett 68, dr 950 ft; Burnett 70 and 75, dks; Waggoner 8-A, dk; Waggoner 9-A, lcn.

Fisher & Gilliland's J. A. Fisher 4, rigging up. Fred B. Foster & Co.'s Throckmorton 1, sd 1820 ft.

Gillispie et al's W. T. Waggoner 1, dr 1775 ft. Green & Dale's Beaver-Electra 5, std 1930 ft; Beaver-Electra 6, dr 200 ft; Beaver-Electra 7, dr 1258 ft. W. J. Green's Mrs. G. Jennings 1, sd 300 ft. Griswold Oil Co.'s Burnett 8, dr 650 ft; Burnett 30, co 1945 ft; Burnett 31, moving in Star 1925 ft; Burnett 32, rigging up; Burnett 33, rigging up; Burnett 13-B, dr 1660 ft; Burnett 14-B, dr 1515 ft; Burnett 15-B, dr 1160 ft. Gulf Prod. Co.'s E. A. Dale 1, dr 2075 ft; G. Jennings 6-A, dr 800 ft; L. P. Douglass 4-B, testing 1950 ft; Douglass 5-B, dk; Douglass 6-B, lcn; J. D. Melton 5, dr 840 ft.

Harrell et al's Mrs. G. Jennings 3, dr 1260 ft. Hockaday & Shaw's W. T. Waggoner 3-C, dr 1150 ft. Houston Oil Co.'s W. T. Waggoner 5, dr 1460 ft. Joe Howell et al's J. & J. Waggoner 1, dr 1850 ft. Humble Oil & Ref. Co.'s L. P. Douglass 3, dr 1115 ft; Douglass 4, dk; W. T. Waggoner 5-B, dr 740 ft.

Kimble et al's L. P. Douglass 1, sd 710 ft. Kruger et al's Waggoner 3, set cas 1480 ft.

Lewis Oil Corp.'s W. T. Waggoner 2, fsh 1400 ft.

McDaniel et al's L. P. Douglass 3, dr 445 ft. McKenna & Moore's W. T. Waggoner 3, dr 320 ft; Waggoner 4, dr 100 ft. Magnolia Petroleum Co.'s J. C. Duke 7-A, dr 1378 ft; L. P. Douglass 1, dr 1295 ft; G. B. Ancell 1, dr 900 ft; H. & T. C. 56, dr 2150 ft; H. & T. C. 58, dr 1200 ft; Waggoner 11, dr 1310 ft; Waggoner 12, rigging up. Mutual Oil Co.'s S. B. Burnett 1, sd 1665 ft.

H. J. Newman's J. M. Smythe 1, rigging up. Noel et al's Waggoner 1, sd 640 ft.

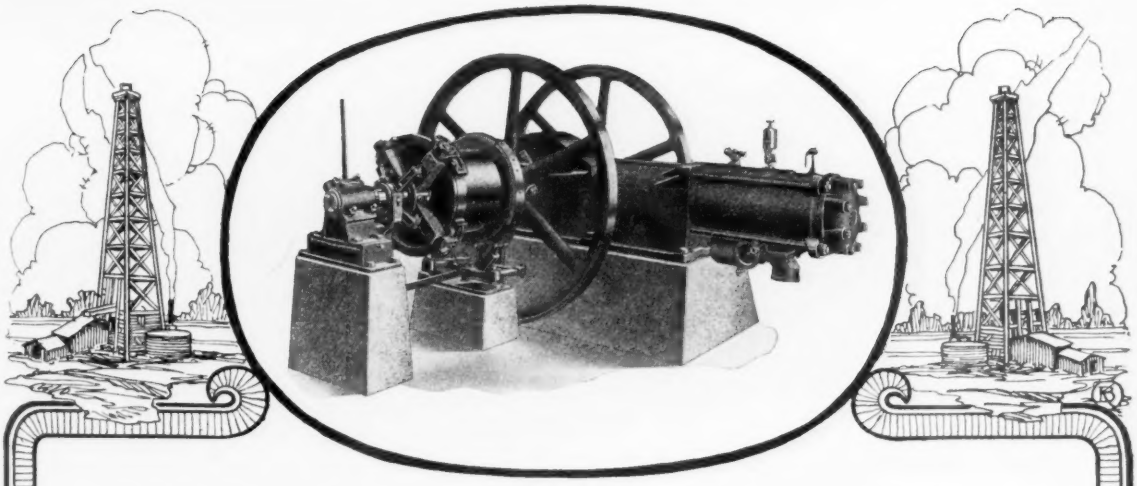
J. O'Neil's Waggoner 2, sd 800 ft; Waggoner 6, dr 1030 ft; and Waggoner 7, dk.

Pathfinder Synd.'s S. B. Burnett 7, sd 1400 ft; Waggoner 11, sd 100 ft. Chas. Pettit's Fee 2, dr 2200 ft. Petroleum Producers Co.'s W. T. Waggoner 11, rigging up. Prince Bros.' A. C. Henson 1, sd 1820 ft.

R. W. Ramming's J. A. Fisher 1, dr 145 ft. Rio Bravo Oil Co.'s W. T. Waggoner 10-E, sd 1958 ft; Waggoner 11-E, dr 640 ft. A. D. Robinson's Mitcham 1, moving in rotary. Rotary Drilling Co.'s Allingham 1, moving in Star 1930 ft; S. B. Burnett 1, sd 400 ft. Ryan Petroleum Co.'s G. E. Nance 9, dr 1680 ft.

Shamrock Oil Co.'s W. T. Waggoner 8, sd 1530 ft; Waggoner 9, dr 1430 ft; and Waggoner 10, dk. Sooner Oil Assn's T. W. Roberts 1, sd 925 ft.

Texana Petroleum Co.'s J. & J. Waggoner 3, sd 1500 ft; Waggoner 4, sd 1430 ft. Texhoma Oil & Ref. Co.'s W. T. Waggoner 7-A, dr 1530 ft; Waggoner 8-A, dr 1040 ft; Waggoner 9-A, dr 450 ft. Texland Oil Co.'s J. & J. Waggoner 2, sd 1700 ft. The Texas Co.'s W. T. Waggoner 221, dr 686 ft; Waggoner 241, dr 580 ft; Waggoner 242, dr 1766 ft; Waggoner 243, rigging up.



GAS ENGINE ECONOMY

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There are minimum parts, fewer adjustments are necessary, no grinding of valves, no broken springs.

YOUR REPAIR BILLS ARE CUT TO A MINIMUM.

ALL FRANKLIN VALVELESS GAS ENGINES are of the enclosed type with splash oiling system, thus saving about 75 per cent of the lubricating oil over open type engines using oil cups.

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New Martinsville Supply Company, New Martinsville, W. Va.

MEXIA PRODUCTION

Mexia, Texas, Oct. 23.—The daily average production of the Mexia field for the past week was divided about as follows:

	Barrels
Humphreys	25,700
Humble Oil & Ref. Co.	5,300
Gulf Prod. Co.	4,100
Magnolia Pet. Co.	4,000
Simms Oil Co.	3,590
H. J. Parker et al	2,700
Atlantic Oil Co.	2,490
Western Oil Fields Corp.	2,540
J. K. Hughes	2,170
Danciger Oil Co.	1,710
Kirby Pet. Co.	920
Wichita Pet. Co.	300
Miscellaneous	7,850
Total	63,375
Last week	63,600

CURRIE PRODUCTION

Mexia, Texas, Oct. 23.—The daily average production of the Currie field for the past week is divided about as follows:

	Barrels
Newblock Oil Co.	2,115
Humphreys	2,085
Snowden & McSweeney	1,370
Trapshooters Oil Co.	950
Homaokla Oil Co.	850
Brothers Oil Co.	750
J. K. Hughes	630
Cosden Oil & Gas Co.	115
Gulf Production Co.	65
Total	8,930
Last week	9,225

MEXIA COMPLETIONS.

Humphrey Oil Co. Berthelson 7-8	130	3110
Navarro County—		
Brothers Oil Co. Bounds 4	100	2950
C. J. Flanigan et al Swink 1	*	3040
J. K. Hughes Dev. Co. McGaw 5	*	2955
Sanders & Wheelock Edens 1	*	1175
J. H. White et al Fortson Bros. 1	*	1100

MEXIA DRILLING REPORT

Humphreys Oil Co.'s Berthelson 36-w, sd 4620 ft; Dorsett 1, dr 3130 ft; Henry 4, dk; Henry 6, lcn; Henry 11, dr 2890 ft; Henry 12, bailing 3110 ft; Kendrick 1-A, lcn; Mills 3, set cas 3000 ft; Pittman 2, set cas 2990 ft; Robertson 1, fsh 3850 ft; Wilson 2, bailing cas 3020 ft.

Kirby Pet. Co.'s Freeman 7-A, fsh 2945 ft.

Magnolia Pet. Co.'s Thompson 12-B, sd 2960 ft.

Mexia Fish Pond Synd.'s Holton 1, sd 3180 ft.

J. K. Shaffer et al's Roller 1, sd 2365 ft.

Texas Company's Stroud 2, dr 3385 ft.

Worlds Wonder Oil Co.'s Arbuckel 1.

Limestone County.

Atlantic Oil & Pet. Co.'s Gunther 1, sd for storage 3615 ft, showing oil and gas; Morris 1, fsh 3165 ft.

Battersby & Kyzer's Herring 1, dr 1950 ft.

Chappell et al's Kirby 1, sd 3130 ft.

Dallas-Mexia Co.'s Allen 1, sd 670 ft

Danciger Oil & Ref. Co.'s Cook 1, dk.

Daturna Oil Synd.'s Askew 1, sd 3145 ft.

Dodwell et al's Champion 1, fsh 2615 ft.

Grogas et al's Gordan 1, co 3070 ft.

Iron Clad Oil Synd.'s Gill 1, tools stuck in cas 3220 ft.

Mexia Red Seal Synd.'s Cook 1, sd 3475 ft.

Mexia Simmons Oil Synd.'s Simms 1, sd 3225 ft.

Mexia Wonder Pool's Whitcomb 1, sd 2135 ft.

Morley & Morley's Head 1, sd for water 1045 ft.

Perry & Trustee's Bounds, 1, fsh 2930 ft; Bounds 2, dr 2750 ft.

J. B. Shummell's Jones 1, sd 3885 ft.

Frank Smith et al's Arnett 1, dr 350 ft; Smith 1, dr 250 ft.

Texas Cent. Oil Synd.'s Cook 1, sd 3075 ft.

Texas Mexia Synd.'s Matgsiak 1, sd 3250 ft.

Big Williams Oil Co.'s Lewis 1, fsh for bailer 3100 ft.

T. & P. Coal & Oil Co.'s Browder 1, bailing out cas 3060 ft.

Yoder et al's Oliver 1, sd 2200 ft.; Priddy 1, sd 2880 ft.

Freestone County

Abernathy et al's Gillam 1, dr and coreing 4710 ft.

Bentley & Malone's Gilpin 1, sd 730 ft.

Dugges & Glazier, sd 995 ft.

Mexia Teague Oil & Gas Co.'s Teague Townsite 1, sd 2095 ft.

Mike Healy Pool's Daniels 1, sd 4395 ft.

O. K. Oil & Gas Co.'s Knight 1, dr 3700 ft.

F. E. Pope et al's Smith 1, sd 3645 ft.

Smith & Swift's Bounds 1, coreing 3080 ft.

Texas Company's W. S. Evans 1, bailing cas 2915 ft.

The Thad McLain Co.'s Green 1, sd 2145 ft.

Trapshooter Riley Oil Co.'s Couch 1, sd 3195 ft.

Navarro County.

Atlantic Oil & Prod. Co.'s Church Lot 1, to test 2960 ft.

Baker et al's Davis 1, dr 2365 ft.

Bert & Bert's Hamilton 1, fsh 3935 ft.

Brothers Oil Co.'s Bounds 2, lcn; Bounds 5, swabbing 2950 ft; G. W. Bounds 2, dr 2450 ft.

Columbia Company's Lawrence 1, sd 1500 ft.; Wilkes 1, dk.

Compass Oil Co.'s County Farm 1, dr 3150 ft.

Corsicana Deep Well Co.'s Burk 1, dr up bailer 2550 ft.

Cor-Tex Oil Co.'s Gray 1, sd 4140 ft.

Duncan & Johnson's McEntire 1, rigged up and sd.

Erwin et al's John Ralson 1, sd 3135 ft.

F. F. F. Oil Co.'s Moody 1, sd 2875 ft.

Gilbert & Hunter et al's McCline 1, sd 3030 ft.

Gulf Production Co.'s R. V. Bounds 2, std 2940 ft; C. S. West Est. 1, std 2960 ft.

Houston Oil Co.'s Bounds 1, plugging back to 3220 ft, td 3230 ft.

Hughes & Harmon's Griffin 1, sd 835 ft.

J. K. Hughes Dev. Co.'s C. S. West Est. 1, dr 2570 ft.

Humble Oil & Ref. Co.'s West 1, std 2935 ft.

Humphreys Texas Co.'s Mattie Bounds 3, made 75 bbls of oil at 2940 ft and sd; Mattie Bounds 4, lcn abn; Mattie Bounds 5, setting liner 2940 ft; Mattie Bounds 6, dr 2735 ft; Mattie Bounds 7, made 100 barrels of oil at 2945 ft and rigging up cable tools; Singleton 1, fsh 3575 ft.

March Oil Co.'s C. S. West Est. 1, sd 2255 ft.

Gilbert S. Johnson's Albritton 1, sd 3180 ft.

McCormack Mexia Synd.'s Swink 1, sd 2500 ft.

Mexia Northam Eqnit. Synd.'s Fortson Bros. 1, dk.

Newblock Oil Co.'s M. Bounds 5, core-

Second Well in New Richland District Flowing 50 Barrels by Heads This Week

MEXIA, TEXAS, Oct. 26.—The second producer for the new Richland district of Navarro County was assured late this week when the Humble Oil & Refining Company's initial test on the West lease started making a showing for a well. The West well found the sand at 2975 feet and began flowing by 50 barrel heads with 4,000,000 cubic feet of gas. The sand has been penetrated to a depth of 6 inches. The new producer is located about 1500 feet southwest of the Seay-Cranfill discovery well which had a maximum output of 5,000 barrels a day.

In the same district the second well of Seay-Cranfill on the West lease has reached a total depth of 2947 feet and is setting casing. The company's 3-A West is rigging up at 1324 feet.

Interest in the Kosse area was somewhat intensified this week in anticipation of developments which should result with four wells now below the 3,000 foot level and drilling ahead. The Revere Oil Company's test on the Bratton lease has now reached a total depth of 3595 feet and is rat holing ahead. The Humphreys Oil Company's Allen 1 is close on the heels of the Revere well and is drilling at 3530 feet.

The Jones discovery well of the Humphreys Interests pumped 465 barrels of fluid one day the early part of the week of which about 240 barrels was water. The operators are now pulling rods on the well.

With the exception of the new pools and offset wells work in the general Mexia district has slowed down considerably within the past few weeks and approximately 40 wells are now reported as shut down in the territory. The majority of these shut down tests are in the Mexia field proper.

In so far as completions are concerned the past week was an unusually dull one with only two small producers reported from the district. At Mexia the Humphreys Berthelson 7-A made a 130 barrel well at 3110 feet. In the Currie field the Brothers Oil Company brought in a small well in No. 4 Bounds at 2950 feet. Other completions were four abandonments in this locality.

The daily average production of the various pools continues to hold steady around 72,000 barrels.

Permits For New Wells in Texas

Austin, Texas, Oct. 24.—Notices of locations furnished the Oil and Gas Division of the Texas Railroad Commission during the past week for new wells to be drilled in the state follow:

Atascosa County—Grayburg Oil Co., well No. 3, SE corner J. McCain lease, Jno. Wilpers survey, block 1398, start October 7; well No. 3, center of L. M. & D. E. Williams lease, J. S. Morris survey, block 140, start September 26; well No. 7, center of D. Heickmann lease, Toribia Viastringo survey, block 276, 66a, start October 4. Gulf Production Co., well No. 4, NE corner L. M. Caruthers lease, G. W. Caruthers survey, No. 736½, 224 acres, start October 22 to drill 1700 ft.

Archer County—E. M. Hinshaw, agent, well No. 2, center east line Tom Mankins lease, S. P. RR. Co. survey, Cert. 16/144, Abst. 427, start October 25 to drill 750 ft. R. W. Dilday, well No. 2, near center west line W. P. Ferguson lease, S. P. RR. Co. survey, block 2, SW of NW¼, start October 25 to drill 1580 ft. C. P. Burton & W. L. Ruff, well No. 1, South end of L. F. Wilson 140a. lease, American Tribune New Colony survey block 60, lot 4, start October 30 to drill 1750 ft. White Oil Corp., well No. 2, 150 feet from S and E lines Kemp & Kempner lease, section 2 S. P. Ry. survey, A-987, to start October 21 to drill 1724 feet. Humble Oil & Ref. Co., well No. 1, 150 feet from S and W lines Kemp & Kempner lease, section 2, S. P. Ry. survey, to start October 19 to drill 2000 ft. H. J. Bruce, well No. 4, center east line, W. H. Taylor lease, American Tribune New Colony subdivision, block 13 lot 3, south 20a, start October 21 to drill 1610 ft. Sunshine State Oil & Ref. Co., well No. 3, center of west line W. P. Ferguson lease, S. P. RR. Co. survey, section 1, abstract 416, 20 acres, start October 18 to drill 1900 ft. Kay-Dee Oil Co., well No. 1, SE corner W. P. Ferguson lease, S. P. RR. survey 16/84 block 2, 40 acres, start October 25 to drill 1600 ft. Hackman & Sanderson, well No. 3, 700 ft from N line 300 ft SE of No. 1 McCall &Sanderson lease, League 3 McCall & Sanderson survey, to start October 16 to drill 700 ft. H. C. Fitzgerald, well No. 1, SE corner W. P. Ferguson lease, S. P. RR. survey A416 block 1, lot 1 start October 25 to drill 2000 ft. The Texas Co., well No. 11, 1700 ft from N and 200 ft from W line C. J. Chance lease,

Brazoria County—Humble Oil & Ref. Co. well No. 6, 55 ft from N and 131 ft from E line Williams & Masterson lease, block 11 D. B. Damon survey, to start October 17 to drill 3300 ft. Sinclair Oil & Gas Co., well No. 2, 75 ft from S and 218 ft from W line Osgood Mock lease, A. Darst league, to start October24 to drill 3300 ft; Well No. 16, at center of S end Masterson Irrigation Co. lease, block 11 B. D. Damon sub-div, A. Darst league, to start October 27 to drill 3300 ft. Well No. 5, 434 ft from S and 1006 ft from E line Becker lease, J. P. Mills survey, to start October 23 to drill 3500 ft.

Brazos County—John Martin, well No. 1, center of C. Connitello lease, Moses

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ing 2950 ft; Bounds 4, lcn; Bounds 6, lcn; Bounds 7, lcn.

Panhandle Oil & Ref. Co.'s West 3, drilling plug 2945 ft.

Ranger Vindicator Oil Dev. Co.'s Thornton 1, sd for water 3300 ft.

Revere Oil Co.'s Ferrell 1, sd 2195 ft.

Seay & Cranfill's Hardy 1, dr 3000 ft; West 2-A, set cas 2940 ft; West 3-A, rigging up 1320 ft.

Snowden-McSweeney's Longbotham 4, dr 2425 ft.

Trapshooter Dev. Co.'s Bounds 1, lcn; Bounds 2, sd 2970 ft; T. W. Bounds 2, fsh 2990 ft; R. V. Bounds 4, sd 2975 ft.

Varley et al's Keiph 1, fsh 3010 ft.

Wafer Oil Co.'s Wilkes 1, sd 1795 ft.

Kosse District.

Engle et al's King Estate 1, dk.

Hobbs Oil Co.'s D. E. Outz 1, dr 3465 ft.

Humphrey Oil Co.'s W. D. Allen 1, dr 3560 ft; Bessett 1, dr 3150 ft.

Kosse Chief Oil Synd.'s Foy 1, block 12, sd 1495 ft.

Kosse Gusher Synd.'s Allen 1, dr 2025 ft.

Kosse Mid-West Oil Co.'s Garrett 1, sd for water 1200 ft.

Kosse White Str. Synd.'s Johnson 1, dk.

McPhail et al's Rogers 1, dr 3300 ft.

Revere Oil Co.s Bratton 1 (Lot 2), rat holing ahead 3590 ft; Harper 1, dk.

T. C. Oil Co.'s Bratton 1, dk.

Thompson Oil Corp.'s King Estate 1, dr 1225 ft.

Wilcox Oil Synd.'s Allen 1, block 18, Lot c, sd 2795 ft.

Williams & Pyle's Jolly 1, set cas 2740 ft.

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Bain survey, to start November 10 to drill 3500 ft.

Bexar County—Arkansas Natural Gas Co., well No. 262, 160 ft from N and W lines J. K. Lamm lease, M. DeLuma survery to start October 21 to drill 3000 ft.

Callahan County—Columbus Tamsey*-Ramsey Bros., well No. 1, J. S. Hart ranch, Bayland Orphan Home survey, section 60, to start October 14 to drill 700 ft. R. C. Tack, well No. 2, 400 ft from N and 200 feet from E line, SW¼ of NW ¼ section 8, D&DA lands, to start October 20 to drill 500 ft.

Chambers County—Humble Oil & Ref. Co., well No. 2, 50 ft from N & W lines Blaffer-Farish lease, Wm. Bloodgood Augmentation, to start October 29 to drill 3500 ft; Same lease, well No. 1, 262 ft from W and 50 ft from N line, to start October 23 to drill 3500 ft.

Comanche County—W. A. Forester et al, well No. 9, 420 ft from N and E lines J. M. Boykin lease, section 2 BS&F Ry. survey, to start October 12 to drill 360 ft. Brainerd Petroleum Co., well No. 1, near center of J. R. Perry lease, H&TC RR. Co. survey, block 2, to start November 15 to drill 3500 ft.

Ellis County—Ellis-Mexia Oil Co., well No. 1, NW corner H. Coumpy lease, Wesley Haigler survey, to start July 1, 1922 to drill 1600 ft.

Eastland County—Junior Oil Company, well No. 1, SE corner A. Shirley lease, Geo. Click survey, to start October 20 to drill 2500 ft; Well No. 1, 150 ft from S and E lines L. King lease, block 36 townsite, Pioneer, started July 7, to drill 2500 ft; Well No. 2, 550 ft from S and 150 ft from E line L. King lease, F. W. A. Doyle pre-emtion survey, started August 10 to drill 2500 ft. Keough Bros. & Litzinger Oil Trust, Cisco, Texas, well No. 4, N section W. R. W. Smith lease, H. C. Rea survey, to deepen to 3300 ft.

Harris County—The Texas Co., well No. 33, 150 ft from W and 400 ft from S line Koehler lease, J. B. Stephenson survey, to start October 20. Scott F. Bickford, well No. 3, 50 ft from N and 300 ft from W line Bailey 39 acres, James Strange survey, to start October 20 to drill 790 ft. Humble Oil & Ref. Co., well No. 26, 100 ft from S and W lines Gail Peninsula lease, Wm. Scott Upper league, to start October 20 to drill 4250 ft. Gulf Production Co., well No. 9, east line Wright "A" lease, 54.875 acres, Wm. Scott lower league survey, to start October 23 to drill 2200 ft; well No. 1, 500 ft east of SW corner, Houston-Smith lease, Wm. Scott lower league survey, 5 acres, to start October 22 to drill 2200 ft.

Jim Higg County—Forest Miracle, well No. 1, at center of lot 61 block 16, Las Animas grant, started August 1, to drill 2000 ft.

Liberty County—Humble Oil & Ref. Co., well No. 3, 60 ft from S and W lines Taylor lease, J. Devore league, to start October 21. Gulf Production Co., well No. 18, 201 ft from S and 75 ft from W line Morris-Phillips lease, C. Underton survey, A-390, to start October 24 to drill 3600 ft.

Limestone County—Humphreys Oil Co., well No. 12, east, northwest section of A. E. Berthelson lease, P. Varela survey, 200 acres, to start October 25 to drill 3100 ft; well No. 10, east, near center of line bordering on road same lease as above to start October 25 to drill 3100 ft; well No. 11, 600 ft SW of No. 10, same lease, to start October 25 to drill 3100 ft. Humphreys Oil Company, well No. 6, west end of T. W. Mills 45.24 acre lease, P. Varela survey, to start October 23 to drill 3100 ft; well No. 9, E, center of east line of A. E. Berthelson lease, P. Varela survey, to start October 23 to drill 3100 ft.

Milam County—Owens Petroleum Co., well No. 11, 300 ft NW of well No. 10 W. P. Henry lease, A. F. Burchard survey, to start October 17 to drill 630 ft.

Navarro County—Humphreys Oil Company, well No. 1, NE corner Mrs. E. J. Simkins lease, J. Wishart survey 213 acres, to start October 23 to drill 1500 ft; Brothers Oil Co., well No. 6-B, 400 ft from N and 350 ft from E line Mrs. R. V. Bounds lease, E. Hillhouse survey, to start October 8 to drill 900 ft.

Orange County—Gulf Production Co., well No. 9, 50 ft from Cow Bayou and about middle of W line Lee Hager fee, S. M. Luce Surm to start October 22 to drill 3400 ft; well No. 8, 50 ft from N and E lines Wm. Gunstream lease, (Hager-Moore) Wm. Dyson league, to start October 22 to drill 3400 ft.

Palo Pinto County—D. A. Upham, well No. 1, 700 ft from E and 800 ft from N line J. H. Bradford lease, section 49 block AT&P Ry survey, to start October 12, to drill 4000 ft.

Webb County—Laredo Oil Co., well No. 4, SW corner J. M. Garcia (O. W. Killam present fee owner) survey No. 457, SE¼ section 457, to start October 10 to drill 1600-1700 ft. South Plains Oil & Gas Co., well No. 5, 600 ft from E and 150 ft from N line Sanguinet lease, survey 463, to start October 6 to drill 1600 ft.

Wilbarger County—F. W. Parker, well No. 1, 150 ft from Center of N line T. G. Showers lease, section 19 block 13 H&TC Ry. survey, to start October 22 to deepen from 1015 to 2000 ft.

Wichita County—The Little Syndicate, well No. 12, southern portion T. J. Cole 80 acre lease, McCool-Munden farm, to start October 27. Flint-Texas Oil Drilling Trust, well No. 5, south end F. P. Warren 50 acre lease, J. M. Hensley and J. W. Smith survey, to start October 25 to drill 600 ft. Gulf Production Co., well No. "B" 5, 360 ft N of S line of L. P. Douglas lease, H&TCRR. survey, section 11, to start October 23 to drill 1950 ft; well No. "B" 6, same lease as above and 300 ft N of No. 5, to start October 23 to drill 1950 ft. Bonner-Chamberlin & Sill Synd., well No. 8, near center of N line Beach Royalty corner lease, T&P RR Co. survey, No. 4, to start "when permitted" to drill 1350 ft. C. M. McFarland, well No. 2, center of east line, T. H. Shive lease, Jas. Walker survey abstract 327, to start October 23 to drill 230 ft. Roy I. Carter, well No. 15, near center of east line S. B. Burnett lease, H&TB RR. Co. survey No. 2, to start October 24 to drill 700 ft. Silberman Oil Co., well No. 6, SW corner T. L. Burnett lease, I&GN RR. Co. survey, to start October 23 to deepen to 1000 ft. Kemp Munger Allen Oil Co., well No. 17, 1000 ft from E and 600 ft from N line HM&SI Munger lease, WVFL survey, to start October 19 to drill from 2000 to 2200 ft. J. N. Swanson, well No. 1, 1535 ft from N and 184 ft from W line W. T. Roberts lease, block 26 Cowherd Bros. sub-div, to start October 21 to deepen from 1300 to 1450 ft. Ramming & Dye, well No. 1, 150 ft from S and W lines Ramming & Dye fee section 15, H&GN Ry. survey, abstract 145, to start October 20 to drill 2000 ft. American Ref. Co., well No. 1, 990 ft from E 150 ft from N line C. E. Jarrell lease, block 63 RRVL survey, to start October 19 to drill 1900 ft. W. J. Grisham or Clover Oil Co., well No. 5, NE corner W. T. Waggoner 60.95 acre lease, H&TC RR. Co. survey, block 5, section 34, to start October 23 to drill 1650 ft. Jno F. O'Donohoe, Petroleum Producers Co., well No. 11, NE corner W. T. Waggoner 20.46 acre lease, H&TC RR Co. survey block 5, section 34, to start October 21 to drill 1650 ft. J. A. Moore, well No. 6, center of west line W. T. Waggoner 53 acre lease, H&TC RR. Co. survey, block 14, to start October 23 to drill 2000 ft. The Texas Co., well No. 243, 290 ft from S line, 1167 ft W of No. 141 W. T. Waggoner lease, N. B. Meade to drill 2000 ft. Pat Oil Co., well No. 2, 175 ft from W and 450 ft from S line L. P. survey abstract 535, to start October 16 Douglas lease, section 11 HT&B Ry. survey, to start October 14 to drill 1900 ft. Walton, Burns & O. Donohoo, well No. 4, 300 ft W of well No. 3 E. H. F. Rathke lease, SFIW Co. survey, to start October 15 to drill 500 ft. Bridwell & Heydrick, well No. 18, 1468 ft from E and 200 ft from S line W. T. Waggoner lease, Seale & Morris survey abstract 393, to start October 16 to drill 1050 ft. Fisher & Gilliland, well No. 3, 600 ft W of W line J. A. Fisher farm, H&GH RR. Co. survey, block 15, L S½ NW¼, 80 acres, start October 21 to drill 2000 ft. L. P. Hammond, well No. 1, NE corner J. C. Jennings lease, H&TC RR. Co. survey, block 12, 50 acres, to start October 25 to drill 2000 ft. Clark, Henshaw & Kellog, well No. 1, NE corner Mankins lease, S. P. RR. Co. survey, block 1, 70 acres, to start October 18 to drill 2000 ft. Roy I. Carter, well No. 14, 650 ft from W and 520 ft from S line S. B. Burnett lease, section 2 HT&B Ry. survey, to start October 18 to drill 700 ft. Mintex Oil Co., well No. 1, 150 ft from S and E lines J. E. Roller est, R. J. Scott survey, A 256, to start October 21 to drill 1300 ft. W. M. Newman, well No. 1, 1358 from W and 843 ft from S line J. M. Smythe lease, section 2 ET Ry. survey, abstract 762, to start October 23 to drill 1900 ft. The Camp Oil & Gas Co., well No. 2-B, 750 ft from S and 150 ft from W lines L. P. Douglas lease, section 11 HT&B Ry. survey, to start October 19 to drill 2000 ft. Humble Oil & Refining Co., well No. 4, near center of east line L. P. Douglas lease, HT&B RR. Co. survey, abstract 136 section 11, to start October 21 to drill 2000 ft. Willie & Balyeat, well No. 3, south end of J. Weibner lease, Aldridge survey, to start October 23. J. A. Moore, well No. 4, 450 ft from N and 150 ft from W line W. T. Waggoner lease, section 14 HT&B Ry. survey, to start October 17 to drill 840 ft. Lee Farm Oil Co., well No. 12, NW corner J. A. Kemp, Wiley Blair, J. S. Owen lease, Cowherd Bros. subdivision, block 28 and 29, start October 26 to drill 1500 ft.

Young County—Gulf Production Co., well No. 3, 960 ft from W and 250 ft from N line E. B. Carmack lease, G. B. Wheelock survey, abstract 1277, to start October 16 to drill 4000 ft. Ralco Oil Co., well No. 8, J. A. Driver lease, Aynesworth survey, to deepen to 3500 ft. W. H. Dyer et al, well No. 1, R. B. Whittenberg lease, J. W. Howard survey to start October 22 to deepen to 4000 ft. North American Oil & Ref. Corp., well No. 10, 250 ft from W and 450 ft from N line B. F. Scott lease, J. N. Smith survey, started September 20.

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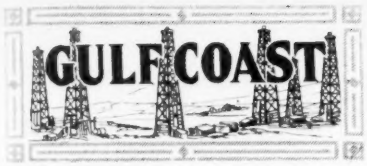

Feeling Better in Gulf Coast Districts With Premium Established Fact

HOUSTON, TEXAS, Oct. 25.—Bridging what Coastal operators believe to be the last gap for a possible downward turn in the posted price of South Texas crudes, the mid-Fall season has found the premium in this part of the country an established fact. This together with the general indications of a stronger market have resulted in a much better feeling prevalent in the Coastal regions despite the continued unsettled state of the Mid-Continent crude situation.

Following the announcement last week of the sale of 25,000 barrels of Orange crude monthly by the Amerada Petroleum Corporation for a period of six months at a premium of 21 cents over the prevailing posted price other sales of similar characters are being consummated. In some cases it is rumored that operators have been reluctant to turn loose of crude even at attractive premiums.

Production of heavy Gulf Coast oils is again on the decline after several weeks of increase brought on by flush production in the more prolific districts. The past seven days registered a daily average output of 114,895 barrels or approximately 2,000 barrels less than that of the previous week. This decrease in face of the big wells being completed in the Hull field is encouraging to say the least.

With the possible exception of the Liberty county field the Texas Gulf Coast fields are now showing some signs of slowing down. This should gain further momentum with the coming of Winter weather.

In Hull, operations are being stimulated in the recent performance of shallow wells and this district now is far in the lead of Gulf Coast districts in both amount of field activity and interest manifested.

On the western side of the Hull dome where recent operations have been unusually well rewarded, the Humble Oil & Refining Company has a pair of good producers this week. The Company's Abel 2-A well found the pay at the shallow depth of 940 feet and came in flowing 800 barrels of clean oil. Number 1 Crosbie, also on the western side, found the sand at 1035 feet and started off for 800 barrels but after flowing for 24 hours quit. At last reports after having cleaned and reset liner the well was again flowing around 500 barrels. These oils are of the regular heavy Gulf Coast gravity.

The Gulf Production Company's Hannah 3 which was completed last week for 4300 barrels at a depth of 1700 feet, had fell off this week and on Monday was flowing at the rate of 3100 barrels.

The Humble Oil & Refining Company's 15 Guedry failed to find production in commercial quantities after drilling to a total depth of 3375 feet and has been abandoned as dry.

Trying to duplicate their feat of last week when they completed the deepest producing well in the world at Goose Creek, the Gulf Production Company has a well at Orange this week at a total depth of 4650 feet. At this depth the company's Hager Fee 7 blew in early last Friday making considerable gas with some oil and b. s. The drill stem was blown from the hole and the derrick demolished by the gas flow. After put under control the well was estimated to be producing about 170 barrels of oil with considerable water and b. s.

Other developments at Orange were confined to one small producer completed by the Thrift Oil Company.

TEXAS GULF COAST COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Saratoga—		
Cotton Oil Co.'s Gulf 2	8	1125
Damon Mound—		
Sinclair Oil & Gas Co.'s Bryan 27	50	3169
Humble—		
Texas Co.'s Stevenson 26	75	2985
Hull—		
Humble Oil & Ref Co.:		
Guedry 15	*	3375
Crosbie 1	800	1035
Abel 2-A,	800	940
West Columbia—		
Crown Oil & Ref. Co.'s Melgard 2-A	150	3529
Goose Creek—		
Humble Oil & Ref. Co.'s Gaillard 50	50	1855
Crown Oil & Ref. Co.'s Gillette 6	100	1425
Sun Co.'s Smith 6	200	2875
Orange—		
Thrift Oil Co.'s McGuire 2	100	3550
Gulf Prod. Co.'s Hager Fee 7	175	4650

MISCELLANEOUS TEXAS GULF COAST PRODUCTION

Houston, Texas, Oct. 23.—The average daily production of the Miscellaneous Texas Gulf Coast fields for the past week was distributed about as follows:

	Past Week	Prev. Week
Sour Lake	4,650	4,770
Somerset (S. A.)	3,600	3,500
Mirando (Zapata County)	3,750	3,500
Barbers Hill	1,850	2,000
Saratoga	1,780	1,720
Batson	1,180	1,165
Blue Ridge	1,850	950
Spindle Top	750	700
Nacogdoches	100	100
Markham	100	100
Dayton	65	65
Richmond	25	25

DAMON MOUND PRODUCTION

Houston, Texas, Oct. 23.—The daily average production of the Damon Mound field for the past week was about as follows:

	Barrels
Sinclair Oil & Gas Co.	2,500
Southern Pet. Co.	350
Humble Oil & Ref. Co.	215
Hyde Prod. Co.	200
Total	3,265
Last week	3,270

DAMON MOUND DRILLING REPORT

Sinclair Oil & Gas Co.'s Jackson 11, sdtr 1812 ft; Becker 5, rig up; Masterson 6, fsh 1550 ft; Williams 6, dr 1750 ft; Masterson 16, dk; Mock 2, rig up.

Hyde Prod. Co.'s Gibson 2, perforated cas from 2865 to 2935 ft; Kittrel 1, set screen 3125 ft; Wisdom 1, dr 2130 ft.

ORANGE PRODUCTION.

Houston, Texas, Oct. 23.—The daily average production of the Orange field for the past week was distributed about as follows:

	Barrels
Gulf Prod. Co.	4,600
Humble Oil & Ref. Co.	3,000
Brownie-Babbette Oil Co.	3,000
Hamilton Oil Corp	1,450
Amerada Pet. Corp.	1,425
Edgerly Pet. Co.	900
Orange Pet. Co.	900
Atlantic Oil Company	435
Monarch Oil & Ref. Co.	355
Supreme Oil Co.	180
Sun Company	165
Sinclair Oil & Gas Co.	160
Paraffin Oil Co.	125
Gulf Coast Oil Co.	95
Total	15,630
Last week	16,200

ORANGE DRILLING REPORT

Humble Oil & Ref. Co.'s Chesson 15, lcn; Chesson 12, sd 4015 ft; Carbello 2, dr 1075 ft; Winfree 7, lcn; Aaronson 2, dr 4615 ft.

Amerada Pet. Corp.'s States 3-B, sdtr 2600 ft; Kishi 2, dr 3460 ft.

Brownie-Babbette Oil Co.'s McLean 4, rig up to go deeper 2950 ft; McLean 5, dr 3650 ft; McLean 7, fsh 3525 ft.

Edgerly Pet. Co.'s Carbello 6, wo to put on pump 3330 ft.

Hamilton Oil Corp.'s Chesson 2, wo bailing 3105 ft; Chesson 9, dk.

Orange Pet. Co.'s Winfree 1, wo sd 3150 ft; Winfree 4, wo dr 4125 ft; Chesson 4, dr 3210 ft.

Sun Co.'s Belile 2, bailing 4225 ft; Gunstream 3, set screen 3350 ft; Kishi 1, r 4350 ft.

Sinclair Oil & Gas Co.'s State 1-A, dr 4510 ft. Supreme Oil Co.'s Jackson 2, dr 3950 ft.

Gulf Prod. Co.'s Hager Fee 9, rig up; Hager Fee 8, rig up; Chesson 2, m 3200 ft; McGuire 1, dr 3150 ft.

K. Kishi & Co.'s Kishi 1, dr 2500 ft; Kishi 2, dr 2800 ft; Kishi 3, dr 1600 ft.

The Texas Co.'s Stark 1, dr 2975 ft.

STRATTON RIDGE DRILLING REPORT

Freeport Sulphur Co.'s Dannenbaum-Tolar 10, dr 2440 ft; Dannenbaum-Tolar 9, sdtr 2400 ft, td 4368 ft; Seaburn 2, dr 2420 ft.

Fairchild Oil Co.'s Boggs 1, sdtr 2700 ft, td 4200 ft.

Empire Gas & Fuel Co.'s Wilson 1, dr 4200 ft.

Kanoka No. 3 Holding Up Around 3000 Barrels—Best at Mirando Field

LAREDO, TEXAS, Oct. 23.—The Kanoka Oil Company's No. 3 which came in flowing last Saturday afternoon is undoubtedly the best well in the entire Laredo territory and is holding up at around 3,000 barrels a day of clean oil and is believed to have run better than 4,000 barrels for a time.

This is one of the most remarkable wells in the country. In fact it probably is the best well for its depth anywhere in the United States. It was completed in an oil sand at 1580 feet and had just enough gas back of it to bring the oil out in good shape. When the drill punctured the sand the oil hit the crown block but the well was quickly closed in and turned into a flow line which emptied into an earthen storage tank lined with concrete, 100 feet by 50 feet and several feet deep. The well has filled this tank level full and more storage is being prepared. It flows steadily night and day, not by heads, as did the Kanoka No. 1 which held honors of the field until this well came in. Oil men are flocking in from all over the country and this well has stimulated development as nothing has done before.

The Magnolia is preparing to drill an interesting wildcat on top of the big Escarpment between Mirando City and Oilton, about four or five miles due northeast of the Kanoka holdings in the Schott pool. The Magnolia geologists who made the locations after a survey of the field maintain that there is another pool similar to the Schott pool at that point which they expect to open up. The Magnolia is preparing to erect 55,000 barrel steel storage on top of a slight rise near there and is putting in a twenty-five car switch and loading rack in the same locality.

Last week was the banner week in the Laredo district. In fact it was the record breaking week in more ways than one. The Carnahan No. 5 in the Schott pool which came in October 12 for 800 barrels increased its flow to 1,000 barrels with careful handling while two other important wells came in for average production, the Pinkston No. 1 in the Aviators pool and the Mexican Oil Co.'s No. 1 in the Mirando field proper.

The Vindicator Oil Company which owns 8.10 acres, said to be the smallest developed lease in the Schott pool brought in their No. 2 for about 150 barrels of oil making a couple of fine wells on this lease.

Wet gas is reported in the McKenzie Ryan No. 1 in the Reiser gas field 23 miles east of Laredo at 520 feet. The usual gas in this field is dry gas at around 1,100 feet oil men say. The wet gas has a strong oil odor.

The Noret Oil Company's No. 1 survey 2253 Schott pool is reported in for about 200 barrels.

O. W. Killam, discoverer of the Mirando pool and one of the chief operators in the Laredo territory is reported to have closed a contract for delivery of 120,000 barrels of crude, the first shipment to be made immediately. The name of the purchaser was not made known here.

Two trainloads of crude went out of Mirando City last week, one to the refinery in San Antonio and the other to Port Aransas for water shipment.

The September report to the state of Texas for taxation purposes indicates 100,000 barrels of crude for this district for September.

MIRANDO COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Webb County—		
Dixie Oil Co. Brackenridge 1	75	....
Ross et al Killam 2	350	....
Zapata County—		
Kanoka Oil Co. Garcia 3	2000	1518

MIRANDO DRILLING REPORT

Webb County

A. D. J. Synd.'s Pratt 2, dr 1120 ft.

Big Bear Oil Co.'s Garcia 1, cemented 6-in 350 ft; 2, rigging up. Burton-Gunn et al's Garcia 1, cemented 1547 ft. Brennan & Leonard's No. 1, rigging up. Butler Oil Co.'s Garcia 1, set 6-in 1570 ft.

Cin-Tex Oil Co.'s No. 1, dr 1590 ft. Carolina Texas Oil Co.'s Barnsley 5, dr 600 ft (corrected report); 6, to spud in. Cole Pet. Co.'s Grant 2, dr 1760 ft (corrected report). Carnahan Garcia 6, to spud in.

Dixie Oil Co.'s Brackenridge 2, dr 500 ft.

Forrester Oil Co.'s Forrester 1, dr 1310 ft.

Harris et al's Welhaussen 1, dr 800 ft. Hood Hill et al's Ojuelos 1, dr.

B. Ross Jones' Barnsley 1, sd; 2, dr 1330 ft.

Kosmos Oil Co.'s Garcia 1, set 6-in 1498 ft. Kanoka Oil Co.'s Garcia 4, dk.

Leaseholders' Oil Co.'s Gates 1, dr 2000 ft; 2, dr 1027 ft; 3, dr 410 ft.

M. V. B. Oil Co.'s No. 1, dr. McKenzie et al's Coleman 1, bailing. Mop-Up Oil Co.'s Ochoa 1, dr 1456 ft. Magnolia Oil Co.'s Los Ojuelos 1, dr 1628 ft; Holbein 3, lcn. Mirando Texas Oil Co.'s Garcia 1, dr 1660 ft. Mirando Prod. Co.'s Garcia 1, testing at 1600 ft; 2, dr 1280 ft.

Nuevo Oil Co.'s Reiser 1, dr 2205 ft. Noret Oil Co.'s Garcia 1, dr 320 ft.

Olson Oil Co.'s Boyd 3, dr 1593 ft.

Sally et al's Garcia 2, set 6-in 1559 ft.

Pinkston et al's Puig 1, reported oil showing 1658 ft. Porcion Oil Co.'s Gonzales 1, dr 1855 ft.

Rincon Pet. Co.'s No. 1, dr 1900 ft. Ross et al's Killam 1, dr 1900 ft; 3, dr. Russell-Coffield's 1, dr 1128 ft.

Sure-Shot Pet. Co.'s No. 1, waiting on rig. Shasta Oil Co.'s Schott 1, dr 1532 ft. South Plains Oil and Gas Co.'s Coffield 1, sd 1605 ft; Moon 1, dr 2125 ft; Wormser 1, gas showing 2104 ft. Sacramento Rio Grande Prod. Co.'s Hammer 1, sd 2100 ft.

Weber Oil Co.'s Holbein 2, dr 2500 ft.

Zapata-Memphis Co.'s No. 1, spd in.

Zapata County

Community Oil Co.'s Haynes 1, dr 1245 ft.

Killam-Condren No. 5, no report.

Glaza-Thomason's Akme 1, spd in.

Magnolia Oil Co.'s Garcia 1, dr.

Ohio Fuel Co.'s Allen 1, lcn.

Thiac & Green's Haynes 1, dr. Texas Mexican Oil Co.'s No. 1, dr.

Wren et al's Martines 3, dk.

GOOSE CREEK PRODUCTION

Houston, Texas, Oct. 23.—The daily average production of the Goose Creek field for the past week was distributed about as follows:

	Barrels
Gulf Prod. Co.	7,435
Humble Oil & Ref. Co.	5,300
Butler Perryman Interests	725
Crown Oil & Ref. Co.	475
The Sun Co.	475
Turnbow Oil Co.	300
Gulf Coast Oil Co.	275
C. B. Japhet Oil Co	100
Miscellaneous	130
Total	15,215
Last week	16,285

GOOSE CREEK DRILLING REPORT

Humble Oil & Ref. Co.'s Gaillard 49, dk; Smith-Simms 33, sd 4110 ft; Smith-Simms 43, sd 4180 ft; Smith-Simms 46, dr 4855 ft; Isenhour 1-A, testing 4833 ft; Isenhour 2-A, dr 2675 ft; Issnhour 1-B, prep to sdtr, td 485 ft; Schilling 32, set inside screener 4420 ft; Sweet 25, dr 4285 ft; G. Penn 26, dk; Beaumont State 10, dr 4260 ft; Harrell 2, dr 4375 ft.

Gulf Coast-Crown Oil's Gaillard 14, dr 2265 ft; Gaillard 36, sd 3375 ft; Gaillard 37, dr 2050 ft

Hiegene Oil Corp.'s Scorrega 1, sd 3965 ft; Scorrega 2, to wo.

Turnbow & Pierman's Dolan 6, set screen 2780 ft.

Crown Oil & Ref. Co.'s Gillette 8, rig up.

Gulf Prod. Co.'s Chapman Bryan 4, dr 4000 ft; Gaillard 15, bailing 4500 ft; Gaillard 16, dr 3450 ft; Wright A-9, rig up to wo; Hirsch State 1, dr 3150 ft; Hirsch State A-1, rig up; C. Gaillard A-49, wo dr 1900 ft; Black Duck Bay State 1, bailing will put on air 4450 ft; H. Smith 1 rig up to wo.

Ship Channel Oil Co.'s Atkinson 1, pipe stuck 1720 ft.

J. R. Copeland Oil Co.'s Spillman Isle 1, dr 1975 ft.

HUMBLE PRODUCTION

Houston, Texas, Oct. 23.—The average daily production of the Humble field for the past week was about as follows:

	Barrels
The Texas Company	4,900
Galena Signal Oil Company	1,265
Invincible Oil Company	260
Cezeaux & Martin	250
Humble Oil & Refining Company	120
Southern Petroleum Company	150
Crown Oil & Refining Company	100
Trinity Oil Corporation	50
Gulf Coast Oil Corporation	40
Bradley Brothers	25
Miscellaneous	640
Total	7,800
Last week	8,515

HUMBLE DRILLING REPORT

The Texas Co.'s Stevenson 23, set casing 2000 ft, td 2715 ft; Landslide 236, sdtr 2700 ft; Landslide 237, sdtr 2620 ft; Koehler 32, making gas at 1950 ft; Koehler 33, rig up.

Crown Oil & Ref. Co.'s Herman 63, dr 975 ft.

DAYTON DRILLING REPORT

Humble Oil & Ref. Co.'s Pruitt 4, dr 2245 ft. Pruitt 5-A, dr 2685 ft.

North Dayton Oil Co.'s Jones 2, lcn; Grandberry 2, m 2075 ft.

Beaumont Oil Co.'s Josey 1, sd 1700 ft.

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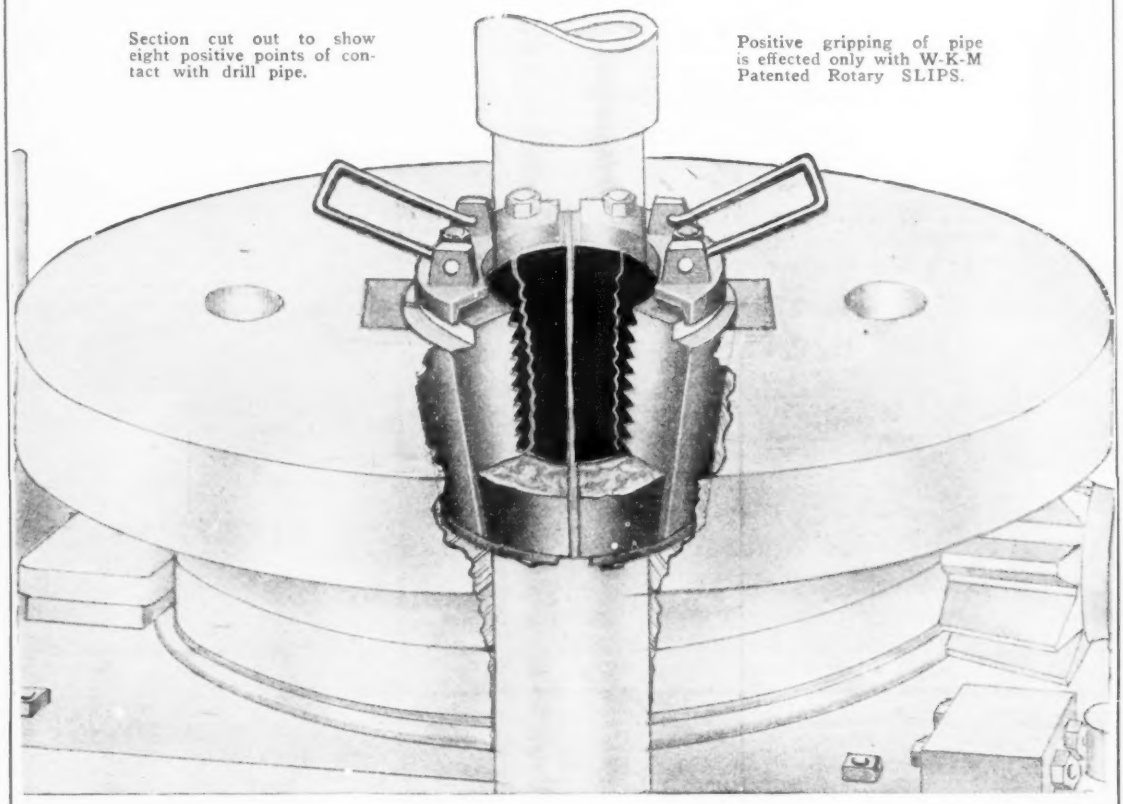

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HULL PRODUCTION.

Houston, Texas, Oct. 23.—The average daily production of the Hull field for the past week was distributed about as follows:

	Barrels
Republic Prod. Co.	8,000
Gulf Prod. Co.	7,200
Yount Lee Oil Co.	4,000
Humble Oil & Ref. Co.	1,700
Higgins Oil & Fuel Co.	1,500
Houston Prod. Co.	1,100
F. H. Carpenter Trustee	400
Monarch Oil & Ref. Co.	400
Empire Gas & Fuel Co.	250
The Texas Co., Royalty	120
Crown Oil & Ref. Co.	5
Miscellaneous	15
Total	24,690
Last week	25,730

HULL DRILLING REPORT

F. H. Carpenter Trustee's Stengler 2, 800 ft of oil in hole and bailing 3180 ft.

Gulf Prod. Co.'s Scarborough 12, rig up; Morris Phillips 15, dr 3600 ft; 18, dk; Hannah 4, dr 1460 ft; Phoenix Dev. Co. 32, dr 2200 ft; Hannah 5, dr 395 ft.

Higgins Oil & Fuel Co.'s Taylor 1, dr 1425 ft; Merchant 3, to put on pump. Merchant 4, rig up.

Houston Prod. Co.'s Abel 4, dr 1260 ft; Abel 5, dr 1625 ft.

Humble Oil & Ref. Co.'s Hook Spells 10, dk; Taylor 3, dr 750 ft; Merchant 1, testing sw to go deeper 3540 ft; Marshall 1, dr 1175 ft; Marshall 2, rig; Abel 3-B, dr 1535 ft; Abel 4-B, setting up; Abel 5-B, dr 1375 ft.

Link Oil Corp.'s Rivers 1, dr in salt at 3035 ft.

Republic Prod. Co.'s Dolbear 56, dk; Dolbear 19, rig up to wo; David Hanna 5, dr 2700 ft; David Hanna 4, lost hole 3100 ft; sdtr 1100 ft.

Yount Lee Oil Co.'s Stengler 3, dr 3500 ft; Stengler 4, dr 500 ft.

Monarch Oil & Ref. Co.'s Abel 1, set screen 2050 ft; Abel 2, dry 820 ft.

F. W. & P. Oil Co.'s Carr 5, dk.

Abercrombie et al's Marshall 1, dr 635 ft.

WEST COLUMBIA PRODUCTION

Houston, Texas, Oct. 23.—The daily average production of the West Columbia field for the past week was about as follows:

	Barrels
The Texas Company	19,325
Humble Oil & Refining Company	5,000
Gulf Production Company	1,100
Hyde Production Company	650
The Sun Company	345
Crown Oil & Refining Company	250
Southern Petroleum Company	85
Monarch-Stribbling	55
United Dev. & Drilling Co.	200
Total	27,010
Last week	26,820

WEST COLUMBIA DRILLING REPORT

The Texas Co.'s Hogg 31, r 1830 to 1940 ft, td 2985 ft; Hogg 48, sd 4160 ft; Hogg 71, sd 3740 ft; Hogg 74, fsh 4480 ft; Hogg 78, sdtr drill stem 3410 ft, td 3500 ft; Abrams 8, cored 3930 ft, dr 3960 ft; Abrams 9, dr 3965 ft; Abrams 10, dr 3030 ft.

Humble Oil & Ref. Co.'s Japhet 8, wo, dr 2640 ft; Japhet 34, testing 3070 ft; Badge 2, dk; P. & L. 11, dr 1950 ft; Wilson 2, lcn; Melgard 4, dk; Robinson 5, sd screen to bail 3445 ft.

Crown Oil & Ref. Co.'s Olchewski 1, fsh 2215 ft.

Helm et al's 2, washing out.

Atlantic Oil Co.'s Wilson 1, sdtr 2620 ft.

Sun Co.'s Bordage 1, rig up to go deeper 3475 ft.

SARATOGA DRILLING REPORT

Gulf Prod. Co.'s Mayo 1, dr 3475 ft.

Rio Bravo Oil Co.'s 310-B, sd 400 ft.

BATSON DRILLING REPORT

Kirby Pet. Co.'s Millhome Strip 10, rig up to go deeper.

BLUE RIDGE DRILLING REPORT

Neils Esperson's Ewing 1, dr 5300 ft.

Texas Co.'s Robinson 9, wo, show of oil and dr 3620 f.t

Sinclair Oil & Gas Co.'s Lee Bashara 1, fsh 3720 ft.

Gulf Prod. Co.'s Blakely 3-B, rig up to go deeper.

SPINDLE TOP DRILLING REPORT

Amerada Pet. Corp.'s McFadden 1, dr 3850 ft.

SOUR LAKE DRILLING REPORT

The Texas Co.'s Fee 247, bailing 2160 ft; Fee 296, preparing to pull strainer 1435 ft, td 2560 ft.

Gulf Prod. Co.'s Tarver 51, sdtr 2100 ft.

E. F. Collins, for a number of years with the Lucey Manufacturing Corporation, has resigned as branch manager for the El Dorado, Ark., district. He has not announced any plans for the future.

WHY

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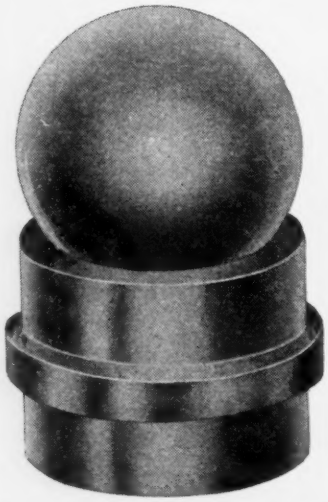

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Houston, Texas, U. S. A.

Grayburg Gets Two Good Wells in Somerset Southwestern Extension

SAN ANTONIO, TEXAS, Oct. 23.—In the Southwestern extension of the Somerset pool the Grayburg Oil Company last week completed a couple of exceptionally good wells but the production of neither is known yet, the company reporting both at better than the average, which for that part of the field means they are very profitable.

One was the No. 8 on the Hartung "A" tract, and the other was the No. 2 on the Byrom tract. Both wells developed a lot of gas and headed up strongly when drilled in but went on the pump after the flush was off and are pumping regularly.

Other Somerset wells of the week are the Grayburg's 24 Carruthers, and 3 McCain. McClue et al put their No. 8 Eggers on the pump for average production and the Petroleum Venture Oil Company's second well, their No. 2, also went on the pump making about average production. The Val Verde Oil Company completed their No. 19 Long also last week.

The average daily production for the field last week was 3600 barrels, the Grayburg alone putting out in excess of 1000 barrels a day. There were 50 rigs reported running with a total of 60 in the field. A few new locations were announced and several new derricks dotted the skyline. There is no talk of a shut down and all the companies seem to be pumping regularly and every driller in the field has a job. The week was cool and dry and all the crews made good time. There has been no rain to speak of in the field for two months and the roads are good but very dusty and the sand in places is getting troublesome to motor vehicles.

Los Angeles, Cal., Oct. 21.—W. C. Crittenden has a wildcat well one mile east of Puente making a good showing of oil. It is understood that the well is drilling today in an oil sand at about 2000 feet, with promising prospects. Puente is located a few miles northeast of Whittier, and east of Los Angeles. Considerable prospecting has been done in the Puente neighborhood, and on east to Chino, with some encouragement at various points. There is faith in this territory by some operators, and wildcatting is being watched.

Los Angeles, Calif., Oct. 21.—Two small wells have been completed in the new Torrance field, south of Los Angeles, the newest oil producing area in California. Neither well is making more than 200 barrels, and the oil is heavy, running about 17 gravity. Something like a dozen wells are already drilling in this territory. It is not expected, however, that Torrancce will attract any great amount of attention so long as Long Beach and Santa Fe Springs are going good.

SOMERSET COMPLETIONS

Company, well, location	Initial Production Bbls.	Depth
Grayburg Oil Co Hartung 8-A	10	....
Byron 2	10	....
W. Carruthers 24	5	....
W. Carruthers 2	5	....
McClure et al Eggers 8	5	....
Pet. Venture Co. Garnand-Boynton	5	....
Val Verde Oil Co. Long 19	5	....

SOMERSET FIELD DRILLING REPORT.

All British Oil Co.'s No. 6 Kay, bailing.

Blue Bonnet Pet. Co.'s No. 14 Tootskie, dr 600 ft.

Beaucamp Pet. Co.'s No. 2 Tuerpe, rigging up.

Duffy, Delavan & Perrenot's No. 2 Dobrowlski, preparing to spud in.

A. J. Burr, No. 1 Nuckolls, dr in.

Empire Gas & Fuel Co.'s No. 5 Surtees, bailing.

Fulks Oil Co.'s No. 4 Edwards, cemented.

Grayburg Oil Co.'s Nos. 9 Hartung, dr 300 ft; 10 and 11, dks; Ernst, bailing; 21, dr 700 ft; 22, 23 and 24, dks; 10 Muennink, dr 1100 ft; 11, 12 and 13, dks; 7 L. F. Heickman, rigging up; 8, dk; 9 Hartung B, dk; 10, dk; 11 dr 1610 ft; 11 Shaw, dr 1750 ft; 4 Byron, dr 300 ft; 6, dr 400 ft; 18 Schmidt, dr 1157 ft; 19, dk; 2 Tex-Carruthers-Morrison, dr 600 ft; 3 and 4, lcns; 23 G. W. Carruthers, dk; 25, dk; 6 D. Heickman, dk; 7, dr 1338 ft; 8, dk; 3 Morgan Williams, bailing 1750 ft; 3 McCain, dr 800 ft.

Gulf Prod. Co.'s Nos. 5 Gulf, bailing 1751 ft; 6, rigging up.

Helvetia Copper Co.'s Nos. 1 Knight, bailing 1730 ft.

Hobson & Voorhees No. 4 Surtees, cementing.

Johnson Bros.' Nos. 5 Nestroy, going on pump; 6, cemented; 7, dk.

Ed. Leach et al Nos. 1 Carruthers, sd 3, lcn.

Leonard Oil Co.'s No. 4 Kurz, lcn.

Lain Oil Co.'s No. 2 Seffell, dr.

Martin Bros.' No. 2 Lambert, bailing.

Marathon Oil Co.'s No. 7 Brown, cemented.

McClure et al Nos. 9 Eggers dk. 2 Arnold, bailing.

Ohio Somerset Oil Co.'s No. 8 Avant, cemented 1100 ft.

Pioneer Oil & Gas Co.'s No. 6 Ernst, bailing.

Somerset Crude Oil & Ref. Co.'s No. 4 Schmidt, dr in.

Omilak Oil Co.'s No. 3 Eve, dr 200 ft.

Southwestern Prod. Synd.'s No. 2 Carruthers, bailing.

Schimmel Oil Co.'s Nos. 3 Miller, bailing; 4, dr 300 ft; 5, dk.

Val Verde Oil Co.'s Nos. 20 Long, spudded in.

Witherspoon Oil Co.'s No. 4 Ricks, rigging up.

Bashara & Koury's No. 1 Swearingen, cemented at 1270 ft.

PIERCE JUNCTION PRODUCTION

Houston, Texas, Oct. 23.—The average daily production of the Pierce Junction field for the past week was about as follows:

	Barrels
Gulf Prod. Co.	785
Snowden & McSweeney	500
Humble Oil & Ref. Co.	200
Sun Company	100
Total	1,585
Last week	1,295

PIERCE JUNCTION DRILLING REPORT

Humble Oil & Ref. Co.'s Fitzsimmons 4, dr 3055 ft.

Sun Company's Whitehead 1, dr 3500 ft.

Texas Coast Oil Co.'s Settegast 1, waiting on standard rig 4400 ft.

Gulf Prod. Co.'s Taylor 13, dr 3400 ft.

BARBERS HILL DRILLING REPORT

Humble Oil & Ref. Co.'s B. and F. 1, dr 500 ft; Fee 2, lcn; Fee 3, lcn; B. and F. 2, setting up.

Mills Bennett's Japhet 2, dr 2400 ft.

United Pet. Co.-Oricle Synd.'s Richardson 8, dr 1985 ft.

The Texas Co.'s Scott 1, dr 3940 ft; E. Barrow 2, rigging up.

Will Bellevue Rival Smackover Field?

Deep test in Bossier Parish may open new chapter for the Louisiana pool

SHREVEPORT, LA., Oct. 23.—Louisiana operators are beginning another week with their attention anxiously centered on the outcome of the Standard Oil Company's deep tests in the Bellevue field in Bossier Parish.

Regardless of the fact that all of the Arkansas fields were discovered by Louisiana operators, who also did most of the development of them, the local fraternity is permitting the growth of a feeling of friendly jealousy over recent reports of wonderful achievements in the Smackover field, which threatens to rival Haynesville, Louisiana's Wonder Pool.

Knowing the magnificent size of the Bellevue structure, local operators, always close observers of wildcat activity, are keenly anxious to see a deep well made there, in order that Louisiana may develop another field to compete with Smackover. And, if deep pay can be found under the gigantic Bellevue structure, it is believed that it will develop into a field worthy to compete with the best of them.

The Standard has bailed casing dry, and has drilled in to a total depth of 2555 feet in its No. 2 Wyche, in section 14-19-11, in which six-inch casing was set at 2540 feet. As this is written, preparations are being made to bail at this depth.

Six-inch casing also has been set at 2360 feet in the same company's Kendrick B-1, located in section 22 of the same township; but this well probably will not be drilled in until the completion of the test in the Wyche well.

The Humble Oil and Refining Company completed a 3,000,000-cubic foot gas well last week at a depth of only 351 feet in the Bellevue field. This well, known as Bliss and Weatherbee B-4, is located in the southwest corner of section 15-19-11.

Sarepta

Several new tests were begun last week in the Sarepta community, and considering the number of wells already going down, it is believed that the Sarepta field, if such there be, may soon be defined.

Morefield and Tanner began drilling last week in their No. 1 Harrison, in section 21-22-11, Bossier Parish. This test, their second operation recently begun in this territory, is located three and a half miles southwest of the Lloyd Harris well.

Lloyd Harris has built a derrick for his No. 4 Pinewoods Lumber Company, to be located near the center of the west half of section 34-23-11, Webster Parish, about a quarter of a mile west of his discovery well.

The Fortuna Oil Company made a location last week for its No. 1 Becker, to be drilled in section 35-23-1, Webster Parish, about a half mile east of the Lloyd Harris well.

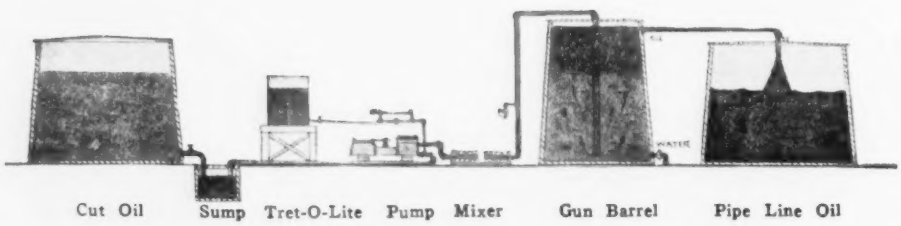
The Pardee Land Company moved in a drilling rig last week for the purpose of drilling a well on its fee land in section 4-22-11, Bossier Parish, located about one mile southwest of the Lloyd Harris well.

Webster Test

Rogers and others are building a derrick on the Gardner land in section 6-22-10, Webster Parish. This well, which will be drilled near the center of the section, is located about three miles southwest of the Lloyd Harris well.

The Fullilove Drilling Company has made a location for another test to be drilled in the Gleason area—in the northeast corner of the southeast quarter of the northeast quarter of section 14-22-10, Webster Parish. This location is about a mile and a half northwest of the Gleason wells, about the same distance south of the Woodley Petroleum Company's Campbell well, and about a mile and a quarter northeast of the Keen & Wolf salt water well drilled in section 22 of the same township.

Tarver and others are building a derrick on the Campbell land in section 2-22-10, Webster Parish, located near the Woodley Petroleum Company's Campbell No. 1, which at one time promised to open up the long-sought oil field in Webster Parish.



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WM. S. BARNICKEL & CO.
ST LOUIS, MO

LOUISIANA FIELDS

HAYNESVILLE PRODUCTION

Shreveport, La., Oct. 23.—The average daily production of the Haynesville field in Claiborne Parish for the past week was about as follows:

	Barrels
Ohio Oil Company	26,015
Gilliland Oil Company	7,080
Louisiana Oil & Ref. Corp.	6,500
Roxana Pet. Corp.	2,000
Standard Oil Company	1,900
Smitherman & McDonald	1,775
Gulf Refining Co.	1,190
Amerada Petroleum Corp.	1,100
Simms Oil Company	1,045
Humble Oil & Ref. Co	800
Palmer Trust	575
Houston Oil Company	525
LeVert Oil & Gas Co.	500
Ziegen et al	400
Transcontinental Oil Co.	400
W. H. C. Oil Co.	375
D. C. Richardson	395
Owl Oil Company	350
National Ref. Co.	330
Belchic & Laskey	300
Miscellaneous	2,095
Total	55,650
Last week	53,625

HOMER PRODUCTION.

Shreveport, La., Oct. 23.—The average daily production for the Homer field in Claiborne Parish for the past week was divided approximately as follows:

	Barrels
Standard Oil Company	4,070
Gilliland Oil Company	2,110
Gulf Refining Company	2,055
White Oil Corporation	1,100
Simms Oil Co.	720
Arkansas Natural Gas Co.	700
Arkansas-Invincible Oil Corp.	675
The Texas Company	595
United Okla. Oil & Gas Corp.	565
Louisiana Oil Ref. Corp.	365
Sinclair Oil Company	295
Miscellaneous	525
Total	13,775
Last week	13,865

BELLEVUE SHALLOW FIELD.

Shreveport, La., Oct. 23.—The average daily production in the Bellevue Shallow Field in Bossier Parish for the past week was divided approximately as follows:

	Barrels
Standard Oil Company	1,035
Gulf Refining Company	940
R. L. Autrey	930
Humble Oil & Refining Co.	600
Louisiana Oil Refining Corp.	525
R. O. Roy & Co.	400
Chandler & Collins	110
Sun Company	30
Total	4,570
Last week	4,855

ELM GROVE PRODUCTION

Elm Grove	925

Shreveport, La., Oct. 24—Recent completions in the Smackover field have shown in some instances a higher gravity oil. Dasko well produces 27 gravity oil, showing 16 per cent gasoline and 18 per cent kerosene. The gravity of the Marrs well oil is around 28, while the oil from the Simms well is 26. Most of the other producers in the field show oil of 19 to 20 gravity.

HAYNESVILLE DRILLING REPORT.

Gilliland Oil Co.'s T. W. Sherman 5 and 6, 10-23-8, dks.

Louisiana Oil Ref. Corp.'s Beene A-3, 13-23-8, set 6 5-8-inch 2748 ft; Sherman A-4, 10-23-8, testing 2825 ft.

Ohio Oil Co.'s Camp 12, 15-23-8, testing 2843 ft; Camp 13, testing 2836 ft; Garrett et al 20, 24-23-8, testing cas 2769 ft; Garrett et al 21 and 23, dks; Garrett et al 22, set 6-inch 2744 ft; Hunt 18, 16-23-8, wosr 2825 ft; Hunt 19 and 21, dks; Hunt 20, lcn; Seegars 6, 9-23-8, dk; Sherman 6, 23-23-8, wosr 2843 ft; Sherman 15, 16-23-8, wosr 2808 ft; Sherman 16, rig; Sherman 17, lcn. Owenwood Oil Corp.'s Camp 2, 19-23-8, sd 2781 ft.

Smitherman & McDonald's Winn 3, 8-23-8, dk. Standard Oil Co.'s Aiken 5, 26-23-8, testing 2818 ft.

Caddo Drilling Report.

Alabama Pet. Co.'s Barlow 1, 5-21-15, set 4½-inch 2810 ft; Ramft 1, 33-22-15, dry 1053 ft. Amerada Pet. Corp.'s Jolly 1, 27-22-15, plugging back, 3211 ft. Arkansas Nat. Gas Co.'s Ardis & Lay 253, 36-22-15, dr 2405 ft. Austin Oil Co.'s Jolly 4, 21-22-15, lcn.

Belchic & Laskey's Noel 1, 25-21-15, sd 2390 ft.

Chandler & Trahan's Jolly 1, 22-22-15, set 4½-inch 2887 ft.

Dixie Oil Co.'s Noel B-2, 19-21-14, dr 2712 ft; Robertshaw 1, 12-21-15, dr 3030 ft; Robertshaw 47, 11-21-15, set 4½-inch 1480 ft; Robertshaw 48, 13-21-15, dr 1425 ft.

Fortuna Oil Co.'s Hampton A-2, 14-21-15, dr 2550 ft; Robertshaw 11, 23-21-15, set 6-inch 2668 ft; Robertshaw 16, 23-21-15, r 2680 ft.

Gulf Ref. Co.'s Herndon 1, 15-21-15, dr 2715 ft; Lane 14, 12-21-15, testing 1575 ft; Tyson 7, 14-21-15, dr 2450 ft.

McCarty et al's Seaman-Bradford 1, 34-21-15, testing 1602 ft.

Oregon P. & R. Co.'s Oden 1, 27-19-14, dr 2355 ft.

Tarver & Bashara's Barshara 6, 23-21-15, testing chalk rock. The Texas Co.'s Caddo Mineral Lands 43, 23-21-15, dr 2610 ft; Head 1, 26-21-15, sd 2444 ft.

Woodbine Oil Co.'s Robertshaw 11, 24-21-15, fsh 2530 ft. Woodley Pet. Co.'s Noel 5, 25-21-15, to test chalk rock, 1500 ft.

LOUISIANA COMPLETIONS.

Company, Well, location	Initial Production Bbls	Depth
Haynesville Field—		
Ohio Oil Company H. P. Camp 3, (Acct. 3), 24-23-8	200	2835
Smitherman & McDonald		
Winn 4, 8-23-8	40	2803
Winn 6, 8-23-8	*	3182
Total, 3 wells	240	
Bellevue Field—		
Humble Oil & Ref. Co. Bliss & Weatherbee B-4, 15-19-11	¶3	351
Webster Parish—		
Palmer et al Pinewoods Lumber Co. 1, 35-23-10	¶25	2662

BULL BAYOU PRODUCTION

Shreveport, La., Oct. 23.—The average daily production for the Bull Bayou field for the last week was approximately as follows:

	Barrels
Gulf Refining Company	1,740
The Texas Company	1,025
Fortuna Oil Company	1,015
Continental Asphalt Company	565
Standard Oil Company	170
Sinclair Oil Corporation	95
Sinclair Oil Company	15
Miscellaneous	1,575
Total	6,200
Last week	6,200

CADDO PRODUCTION.

Shreveport, La., Oct. 23.—The average daily production for Caddo Parish last week was approximately as follows:

	Barrels
Gulf Refining Company	2,775
Standard Oil Company	1,805
The Texas Company	1,410
Dixie Oil Company	1,265
Fortuna Oil Company	450
Caddo Central Oil & Ref. Co.	260
Louisiana Oil Refining Corp.	245
White Oil Corporation	55
Miscellaneous	2,840
Total	11,105
Last week	11,525

MONROE DISTRICT DRILLING REPORT.

Ouachita Parish.

Atlas Oil Co.'s West Virginia 1, 34-19-5, fsh 2830 ft.

Fortuna Oil Co.'s Morrison 1, 2-19-4, dr 610 ft.

Huber Carbon Co.'s Haire 1, 6-18-5, dr 1500 ft.

Montgomery Drlg Co.'s Miller 1, 19-18-5, sw 2395 ft.

Nelson Carbon Co.'s Fee 7, 20-19-5, rig.

Ouachita Natural Gas Co.'s Walker 2, 32-19-5, set 8-inch 1107 ft.

Potts et al's Stanley 1, 32-19-5, dr 2110 ft.

Southern Carbon Co.'s Fee 15, 21-19-5, dr 360 ft; Fee 16, set 8-inch 1050 ft.

The Texas Co.'s Gibbs 1, 29-15-15, dk; O'Neill 1, 33-19-5, dr 2130 ft. Texas-Louisiana Carbon Co.'s Fee 1, 4-19-5, dr 750 ft.

Morehouse Parish

Mohawk Oil Co.'s Marlett 1, 19-20-6, dr 1235 ft.

Richland O. & G. Co.'s West 1, 10-18-6, dr 2015 ft.

Southern Carbon Co.'s Fisher 3, 33-21-5, dr 2085 ft.

The Texas Co.'s Tensas 3, 10-20-4, dr 2120 ft.

United O. & G. Prod. Co.'s Fee 1, 3-19-5, dr 710 ft.

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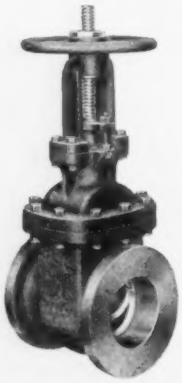

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ELM GROVE DISTRICT DRILLING REPORT.

Gulf Ref. Co.'s Hodges 11, 24-16-12, set 4½-inch 4021 ft.

Louisiana Gas & Fuel Co.'s Hodges B-2, 24-16-12, set 6-inch 789 ft. Lakeside O. & G. Co.'s Fee 1, 17-16-10, dr 2245 ft.

R. O. Roy & Co.'s Caplis 6, 23-16-12, sd 1558 ft.

The Texas Co.'s Caplis 10, 24-16-12, wosr 1552 ft; Caplis 11, wosr 1552 ft.

BELLEVUE DRILLING REPORT.

Gulf Ref. Co.'s Bliss & Weatherbee A-11 15-19-11, set 6-inch 343 ft.

Humble O. & R. Co.'s Bliss & Weatherbee B-3, 14-19-11, lcn.

Louisiana Oil Ref. Corp.'s Bodcau A-9, 15-19-11, sd 1080 ft.

R. O. Roy & Co.'s Scanlan 7, 8, and 9, 15-19-11, lcns.

Standard Oil Co.'s Kendrick B-1, 22-19-11, set 6-inch 2362 ft; McKinney 1, 14-19-11, dk; Wyche 2, 14-19-11, testing cas 2551 ft. Sun Co.'s Smith 1, 26-19-11, wosr 332 ft.

WHITE EAGLE NET EARNINGS IN SEPTEMBER $410,885

Kansas City, Mo., Oct. 21.—Net earnings for September of $410,885 before Federal taxes and depletion are reported by the White Eagle Oil and Refining Company. This compares favorably with net earnings of $389,721 for the month previous and $201,930 for September, 1921.

For the third quarter of this year, White Eagle Oil and Refining reported net earnings of $1,082,009 as compared with $623,667 for the corresponding period of 1921. For the nine months ended September 30, last, net earnings totalled $2,516,619 against $1,218,947 for the same period last year.

L. L. Marcell is president of White Eagle which has general offices on the fourteenth floor of the Federal Reserve Bank building here.

COLOMBIA MAY SOON HAVE PIPE LINE TO CARTAGENA

Washington, D. C., Oct. 21.—Consular advices are that the new Colombian government in South America likely will grant the petition of the Andean National Corporation for the construction of a pipe line from Barranca Bermeja and other interior producing points to Cartagena. If permission is given, and there appears to be no opposition to the proposal, work will probably commence within a few months.

The Andean National Corporation is a Canadian company which has obtained from the Colombian government exclusive concession for harbor rights in Cartagena Bay.

Washington, D. C., Oct. 21.—Officials of the State Department of the national government here are looking into the details of the oil concession which the International Barnsdall Corporation recently acquired from the Soviet government in Russia. Through Henry M. Day, president of the International Barnsdall, the approval of the State Department is being sought for the transaction.

London, Eng., Oct. 14.—Oil storage tanks costing about £70,000 are to be erected by Cory Brothers, a coal firm.

SOUTHERN LOUISIANA PRODUCTION

Lake Charles, La., Oct. 23.—The average daily production of the South Louisiana fields for the past week was divided about as follows:

	Past Week	Prev. Week
Vinton	4,500	4,475
Evangeline	520	560
Edgerly	320	375
Anse La Butte	90	90

SOUTH LOUISIANA DRILLING REPORT

Vinton

Gulf Ref. Co.'s Star Vincent 26, dr 3250 ft.

Edgerly Pet. Co.'s Lasso 1, dr 3135 ft.

Just Oil & Ref. Co.'s Rodgers 1, sd 3975 ft.

Vinton Pet. Co.'s Rescue 9, dr 900 ft.

Tanner Oil Co.'s Vincent 1, will sdtr 4105 ft. The Texas Co.'s Gray 17, bailing 2265 ft.

Reiss Synd.'s Greenacre 5, dr 2020 ft.

Vinton Pet. Co.'s Gray 40 acre 1, dr 4150 ft.

G. F. B. Oil Co.'s Lucky Four 4, m 2110 ft.

Edgerly

Coastal Pet. Co.'s Hunter 1, dr 2875 ft.

Gulf Ref. Co.'s Bright Penn 38, dr 4670 ft.

Evangeline

Hansierre et al's 1, sd 2005 ft.

C. O. & F. Oil Co.'s Fee 86, dr 3455 ft.

St. Martinsville

Gulf Ref. Co.'s Levert St. John 1, dr 2300 ft.

Bouillon Bayou

Gulf Ref. Co.'s Hope Oil Co. 3, set casing 600 ft.

HEGGEM PICTURES TULSA AS MANUFACTURING CENTER

Tulsa, Okla., Oct. 21.—Tulsa as a center of manufacturing activity was pictured by Alf G. Heggem to delegates attending the wholesalers' and manufacturers' luncheon of the Southwestern Business Congress here this week at the Hotel Tulsa. Heggem is president of the Oil Well Improvements Company which makes devices for use in the production of oil.

In speaking of the advantages offered by Tulsa to manufacturing concerns, Heggem laid stress on the fact that to be most successful these enterprises should be located near the centers of production.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

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"I have been drilling for twelve years and have used practically every bit made, but give me PELCO for hole."

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Smackover Production Going Up by Jumps

If all wells were opened potential yield would be about 35,000 barrels

EL DORADO, ARK., Oct. 23.—Last week completions in the Smackover Field, of which six wells added more than 18,000 barrels per day to that field's present potential production from wells already completed, suggest the immediate possibility of a return to the conditions under which the El Dorado Field was developed,—when lack of storage and pipe line facilities to care for flush production forced the price of oil down to forty cents a barrel. However, a favorable feature of the handling of Smackover crude is that, being heavy oil, it can be held in earthen storage with less loss from evaporation than is the case with lighter oils.

A canvass of recent reports indicates that, if all the completed wells in the Smackover Field could be opened up today, they would yield a total of more than thirty-five thousand barrels of oil a day, divided as follows:

Company and Well	Potential Prod.
Woodley Pet. Corp.'s Richardson 1	7,500
Berry & LeGrande's McKenzie 1...	7,000
Simms Oil Co.'s Murphy 1 and 2..	5,000
E. M. Jones' Laney 1.....	5,000
V. K. F. Drlg Co.'s Richardson 1 and 2	3,000
Ark. Nat. Gas Co.'s Laney 1.....	3,000
Dasko et al's McKenzie 1.....	2,500
Standard Oil Co.'s Murphy 1 and 2	2,250
Marr et al's Saxon 1	250
Total, from 12 wells	35,500

Twelve to Complete

A glance at accompanying drilling reports will show that at least twelve more wells will be completed during the course of the present week; and, if these wells prove to be as good as the average of recent completions, it is entirely possible that the Smackover Field's potential production, which now exceeds El Dorado's average, may soon exceed even that of Haynesville, located just south of the Arkansas line in Claiborne Porish, Louisiana.

A great many of Smackover's completed wells are shut in to await the completion of storage tanks. Only the Standard Oil Company and the Simms Oil Company are moving Smackover crude at present.

The biggest well of the week was completed by the Woodley Petroleum Corporation. Its No. 1 Richardson, in section 29-15-15, located a quarter of a mile west of the discovery well, came in last February with an initial production first reported at 4,000 barrels per day. Later reports, however, state that this well, although pinched in, is capable of yielding as much as 15,000 barrels of oil per day. To allow for the feeling of enthusiasm and optimism which pervades the new field, this figure was cut in half in the compilation of the table of estimates printed above. This well penetrated only nine feet into the sand, the top of which was encountered at 2,054 feet.

New Jones Well.

The next biggest well of the week was completed by Eddie Jones in section 31-15-15. His No. 1 Laney came in with an initial production reported at 5,000 barrels of oil and 25 million cubic feet of gas per day from 36 feet of sand at a total depth of 2021 feet.

Dasko and associates also completed a combination oil and gas well last week. Their No. 1 McKenzie, located in section 36-15-16, came in with an initial production variously estimated at from 2,000 to 3,000 barrels of oil and about 3 million cubic feet of gas per day from a total depth of 2,000 feet.

The Simms Company brought in its second Murphy well last week. It came in with an initial production of 3,000 barrels of oil per day from 30 feet of sand at a total depth of 2,038 feet.

The V. K. F. Drilling Company, discoverer of the Smackover Field, brought in its No. 2 Richardson last week. It is credited with an initial production of 1,200 barrels of oil per day from 8 feet of sand at a total depth of 2,068 feet.

The Arkansas Natural Gas Company yesterday brought in a 3,000 barrel wel in section 31-15-15, located between the Berry & LeGrande extension and Eddie Jones's gusher, mentioned above. This well, known as No. 1 Laney, struck the pay at 1,995 feet; and was drilled to a total depth of 2,022 feet, at which depth the bit was still in the sand. This is the first well to be completed by the Arkansas Natural in the Smackover Field. Three other wells, however, all of which are located on this same lease, will be drilled in during the course of the current week, casing already having been set and cemented in all of them.

The Newton Trust brought in a gas well, spraying a few barrels of oil, in its No. 1 Poole, located in section 25-15-16, about a quarter of a mile directly north of the Berry & LeGrande extension. This well was drilled 35 feet into the sand at a total depth of 2,040 feet. It is said to be making about ten million cubic feet of gas per day.

The Simms Oil Company's No. 1 McKenzie, located in section 36-15-16, came in yesterday as a small gasser, spraying about 25 barrels of oil, from a total depth of 2,000 feet.

El Dorado Deep Tests.

The Standard Oil Company is testing casing preparatory to making a second test in its No. 2 Trimbel, in section 1-18-16, a deep test being drilled near the Natural Gas & Petroleum Corporation's Blossom sand discovery well located in the same section. It will be recalled that this well tested salt water when bailed at a depth of 2,903 feet, after six-inch casing had been set at 2,893 feet. Probably believing that the six-inch was set too high to exclude a salt water sand thought to lie just above the deep pay, the Standard drilled down to a depth of 2,926 feet; and then set a string of 4½-inch casing for the purpose of making another test.

The Love Petroleum Corporation is preparing to take a core from a sand formation found at a depth of 2,700 feet in its deep test in section 35-17-16, Union County.

The Frost Oil Company is said to be making preparations to set liner and test a sand encountered at a depth of 2,900 feet in its No. 1 Lawton, located in section 36-17-16, Union County.

Olvey and others are nearing the depth at which casing will be set in their No. 4 Mann, located in section 20-18-15, Union County, which is being deepened to the newly discovered deep pay.

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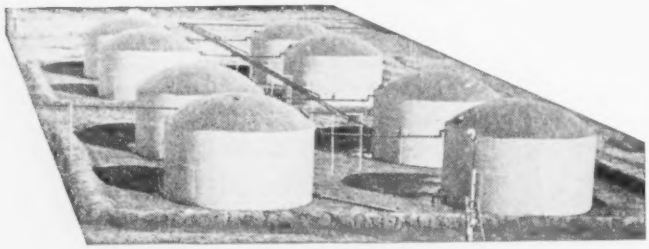

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SMACKOVER DRILLING REPORT.

Impending Tests.

Arkansas Natural Gas Co.'s Laney 1, 31-15-15, set 6-inch at 1916 ft.

Arkansas Natural Gas Co.'s Laney 3, 31-15-15, set 6-inch at 1934 ft.

Arkansas Natural Gas Co.'s Laney 4, 31-15-15, set 6-inch at 1914 ft.

Baker & Dean's Laney 1, 30-15-15, set 6-inch at 1928 ft.

Berry & LeGrande's Laney 1, 31-15-15, set 6-inch at 1910 ft.

Berry & LeGrande's Laney 2, 31-15-15, set 6-inch at 1904 ft.

McMurray et al's Laney 1, 31-15-15, set 6-inch at 1930 ft.

Newton et al's Poole 1, 25-15-16, drilling in.

Roxana Petroleum Corporation's Murphy 1, 28-15-15, set 6-inch at 1993 ft.

Neill Scroggins's McKenzie 1, 36-15-16, blowing 15 million cu ft. gas.

Simms Oil Company's McKenzie A-1, 36-15-16 drilling in.

Texas Pacific Coal & Oil Co.'s Laney 1, 31-15-15, set 6-inch at 1887 ft.

OTHER DRILLING WELLS

Ouachita County

Arkansas Natural Gas Co.'s Laney 2, 31-15-15, dr 1720 ft.

Bailey et al's Rhoten 1, 32-15-15, moving over to drill new hole. Baker, Trustee's Usrey 1, 36-15-15, dr 2165 ft. Berry & LeGrande's Laney 3, 31-15-15, dr 1000 ft. Laney 4, rig; McKenzie 2, 36-15-16, dr 1325 ft; McKenzie 3, dk; McKenzie 6, dr 40 ft. Bradstreet Oil Co.'s Poole 1, 25-15-16, dr 1210 ft.

Dasko et al's Berg 1, 20-15-15, dk; McKenzie 2, 36-15-16, dk.

El Dorado-Union Oil Co.'s Lagrone 1, 36-15-17, sd 1500 ft.

Forrest Oil Co.'s Goodwin 1, 29-15-15, dk; Lewis 1, 36-15-16, dr 1145 ft.

Gulf Ref. Co.'s Johnson 1, 29-15-15, dr 915 ft; Johnson 2, rig; Johnson 3 and 4, dks; Umstead 1, 2 and 3, 32-15-15, lcns.

Hirsch et al's Fee 1, 25-15-16, dr 500 ft. Houston Oil Co.'s Cunningham 1, 25-15-16, rig; Laney 1, 31-15-15, lcn; Murphy 1, 28-15-15, dr 1250 ft. Humble O. & R. Co.'s Graves 1, 28-15-15, dr 1905 ft.

Eddie Jones' Laney 2, 31-15-15, dk; Laney 3, rig.

Marr & Morris' Laney 1, 31-15-15, dr 600 ft. Morris et al's Laney A-1, 31-15-15, dr 575 ft. McMurray et al's Hirsch 1, 25-15-16, dk tmbrs; Laney 4, 31-15-15, dr 1115 ft.

J. W. Olvey et al's McDonald 1, 1-16-16, dr 1420 ft; Umstead 1, 20-15-15, dr 870 ft.

Palmer et al's Laney 1, 36-15-16, set 8-inch 930 ft.

Roxana Pet. Corp.'s Murphy 1, 28-15-15, dr 1765 ft; Murphy 2, dr 810 ft.

Simms Oil Co.'s Goodwin 1 and 2, 29-15-15, dk tmbrs; Hirsch 1, 31-15-15, dr 1815 ft; Laney C-1, 31-15-15, rig; Laney C-2, dk; F. A. Laney 1, 31-15-15, dr 1600 ft; F. A. Laney 3, 31-15-15, dr 1745 ft; D. S. Laney 1, 31-15-15, rig; D. S. Laney 2, dr 430 ft; McKenzie 2, 3, and 4, 36-15-16, lcns; McKenzie A-1, A-2, and A-3, 36-15-16, rigs; McKenzie A-4, lcn; J. E. Murphy 3 and 4, 28-15-15, dks; Tom Murphy 1, 29-15-15, dr 1415 ft; Tom Murphy 2, dk; Tom Murphy 3, dk tmbrs; Nannie Murphy 1 and 2, 29-15-15, dks. Sinclair Oil Co.'s Laney 1, 30-15-15, set 12½-inch 100 ft; Lanahan 1, 36-15-16, rig. E. L. Smith et al's Bradley 1, 30-15-15, dr 35 ft. Smith & Wheelock's McKenzie 1, 36-15-16, dr 350 ft. Standard Oil Co.'s Murphy B-3, 29-15-15, dr 1400 ft; Murphy B-4, dr 1100 ft; Murphy B-5 and B-6, dks.

Sun Co.'s Johnson 1, 30-15-15, set 12½-inch 125 ft.

Texas Pacific Coal & Oil Co.'s Laney 1, 31-15-15, dr 1875 ft; Laney 2, rig; Laney 3, dk; Laney 4, lcn. Thompson et al's McDonald 1, 1-16-16, dr 910 ft. The Texas Co.'s Berry 1, 33-15-15, dk; McKenzie 1, 36-15-16, rig; McKenzie 2, dk.

V. K. F. Drlg Co.'s Richardson 3, 29-15-15, rig; Richardson 4, dk.

Union County.

Crawford & Sebastian's Williams 1, 21-16-16, rig.

El Dorado Natural Gas Co.'s Vinson Tatum 1, deep test, 11-16-16, dr 2460 ft.

Harris Drilling Corp.'s Murphy 1, 35-15-16, lcn.

Marr et al's Primm 1, 2-16-16, dr 500 ft; Saxon 2, 4-16-16, rig; Saxon 3, dk.

Oil Operators Trust Co.'s Murphy 1, 7-16-15, rig.

STEPHENS COUNTY DRILLING REPORT

Cox Oil Enterprises's Russ 1, 14-16-20, dk.

Haskell et al's Webfer 2, 24-15-20, dr 1630 ft.

Murphy et al's Booth 1, 34-16-19, dr 650 ft; Wilson 1, 17-16-19, set 12½-inch 110 ft.

Queenan-Wells-Dudney Synd.'s Hammond 1, 35-15-20, lcn.

Tate et al's Booth 1, 34-16-20, dk; Hall 1, 11-15-20, sd 2450 ft. Transcontinental Oil Co.'s Curry 1, 5-16-19, re-setting 6-inch 2649 ft.

CITIES SERVICE GROSS EARNINGS $14,417,560

New York, N. Y., Oct. 21.—Gross earnings of the Cities Service Company for the twelve months period ending September 30, 1922, totalled $14,417,560. Total surplus and reserves at that time were $47,204,343 and gross for the month of September aggregated $1,006,673.

Cities Service directors have declared the regular monthly dividends of one-half of one per cent on the preferred and Preference B stock and one-half of one per cent cash scrip on the common stock and one and one-quarter per cent stock scrip on the common stock, all payable December 1 to stockholders of record November 15.

Okmulgee, Okla., Oct. 21.—Independent Oil and Gas Company stockholders at a special meeting here this week voted to increase the capital stock from $3,000,000 to $10,000,000 and Ed H. Moore, president, announced that hereafter regular quarterly dividend payments would be paid on the basis of 1 per cent a month. The Independent Oil and Gas Company is owned by Okmulgee people and is drilling some 15 wells and operates about 100 wells.

Washington, D. C., Oct. 21.—Advices to the Department of Commerce are that the Mexican Eagle Oil Company has ceased supplying fuel oil to vessels touching at Salina Cruz, Mexico. Increasing and burdensome taxes are given as the reasons for the Mexican Eagle withdrawing from the state of Oaxaca.

ARKANSAS PRODUCTION

EL DORADO

El Dorado, Ark., Oct. 23.—The average daily production for the Arkansas fields for the last week was approximately as follows:

	Barrels
Standard Oil Company	1,925
Gulf Refining Company	1,920
Arkansas Natural Gas Company	1,250
Humble Oil & Refining Company	775
Phillips Petroleum Company	775
Natural Gas & Petroleum Company	725
Constantine Refining Company	715
Johnson Drilling Company	535
Woodley Interests	535
Sun Company	500
F. C. Henderson	490
Livingston Oil Corporation	475
Detroit Summerfield Oil Company	465
Magnolia Petroleum Company	450
Gladys Belle Oil Company	450
Amerada Petroleum Corporation	385
Arkansas-Invincible Oil Corp.	360
White Oil Corporation	335
Hudson Oil Company	310
J. S. Richardson	300
Harrell & Hatcher	300
A. H. Ramage	300
Caddo Cent. Oil & Ref. Corp.	300
Enfisco Oil Company	275
Associated Prod. & Ref. Corp.	255
Southern Oil & Land Company	250
Pure Oil Company	250
Johnson et al	240
Clark & Greer	205
G. S. & G. Corporation	205
Ozark Oil Company	200
Henry Hobbs	200
Miscellaneous	8,445
Total	25,100
Last week	26,500

SMACKOVER

	Barrels
Berry & LeGrande	4,480
Simms Oil Company	2,210
V. K. F. Drilling Company	1,015
Standard Oil Company	510
Total	8,215
Last week	3,255

ARKANSAS COMPLETIONS.

Company, Well, Location	Initial Production bbls.	Depth
El Dorado Field—		
Gardner et al West 2, 19-17-14	250	2171
West 3, 19-17-14	100	2180
Ozark Oil Co. Cranston 3, 19-17-14	125	2168
Total, 3 wells	475	
Smackover Field—		
Dasko et al McKenzie 1, 36-15-16	¶5-2000	2000
E. M. Jones et al Laney 1, 31-15-15	¶25-5000	2021
Simms Oil Co. J. E. Murphy 2, 28-15-15	3000	2038
V. K. F. Drilling Co. Richardson 2, 29-15-15	1200	2067
Woodley Pet. Co. Richardson 1, 29-15-15	4000	2068
Total	¶30-15,200	

EL DORADO DRILLING REPORT.

Associated P. & R. Co.'s Thurkhill 3, 28-18-15, wosr 2149 ft; Carroll 5, 28-18-15, waiting for cas 2070 ft.

Big Four Oil Co.'s Cranston 2, 19-17-14, waiting for cas 2138 ft; Rogers 1, 17-18-17, waiting for cas 1935 ft. Biles & Wilroy's Brown 2, 20-17-14, dk. Bondurant et al's Stegall 1, 31-18-12, dr 1275 ft. Brown Oil Co.'s Nash 1, 3-19-15, wosr 2151 ft.

Coleman et al's Pendleton 4, 21-18-15, set 6-inch 2130 ft. Constantine Hinson 5, 7-12-15, dr 1990 ft; Martin 1, 1-18-16, dry 2190 ft; Cooper et al's Burns 1, 32-18-15, wosr 2186 ft.

Dauche et al's Tuffts 3, 31-16-14 set 6-inch 2080 ft.

Equitable Pet. Co.'s Barton 1, 33-17-15, set 6-in 2042 ft.

Foster et al's Cobb 1, 5-19-15, rig. Foster Pet. Co.'s Daniels 2, 19-18-15, dk. Frank et al's Murphy 2, 20-17-14, dr 1800 ft.

Gann & Burke's Murphy 3, 20-17-14, set 6-inch 2160 ft; Murphy 4, dk. Gardner et al's West 4, 19-17-14, dk.

F. C. Henderson's Pratt 4, 8-18-15, rig. Hunt et al's Moody 1, 19-17-14, wosr 2140 ft; Moody 2, dk Pickering 2, 17-18-15, dk.

Jarmon Drlg Co.'s Moody 1, 20-17-14, wosr 2169 ft; Smith 2, 20-17-14, rig. Johnson Drlg Co.'s Benson 3, 4-19-15, dk tmbrs. Joiner et al's Traylor 2, 9-19-15, wosr 2173 ft.

Keen & Wolfe's Slaughter 1, 10-17-16, testing 2102 ft. Kemp et al's Garza 1, 6-19-15, dr 415 ft. Knott et al's Nash 1, 29-17-15, wosr 2205 ft.

Magnolia Pet. Co.'s Ingram 1, 20-17-15, dr 1000 ft. Mays et al's Moody 1 and 2 19-17-14, dks. Marr et al's Cutter 1, 20-17-14, set 6-inch 2103 ft; Rowland 1, 28-18-15, dk. Morris Drlg Co.'s Rowland 3, 28-18-15, milling out of cas at 1800 ft. Mutual Oil Co.'s Spooner 2, 29-19-16, set 10-in 180 ft. McDuff & Greenwood's Newsom 6, 5-18-15, wosr 2129 ft.

Ozark Oil Co.'s Smith 4, 19-17-14, sd 2180 ft; West 1, 19-17-14, wosr 2178 ft; West 2, rig.

Richardson et al's Cabiness 1, 3-19-15, set 6-inch 2130 ft. D. C. Richardson et al's Murphy 3, 20-17-14, set 6-inch 2100 ft; Murphy B-1, 20-17-14, dr 995 ft; Murphy B-2, dk.

Slantz et al's Madden 1, 3-18-15, dry 2244 ft. Stewart & Hamilton's Smith 1, 20-17-14, wosr 2125 ft. Stock et al's Woods 3, 20-18-15, rig.

Watkins et al's McGough 1, 29-17-14, set 10-inch 160 ft. Weiss et al's Allen 1, 18-17-14, dk. Woodley et al's Van Hook 4, 7-18-14, dr 1915 ft; Townsend 1, 6-18-14, dr 1625 ft; Horton 1, 2-18-15, wosr 2151 ft; Woods 2, 29-18-15, lcn.

Zoder et al's Moody 2, 17-17-14, dk.

Deep Tests.

Constantine Ref. Co.'s Thimbel 1, 1-18-16, dr 2705 ft.

El Dorado Natural Gas & Pet. Co.'s Frazier 1, 1-18-16, dr 700 ft.

Frost Oil Co.'s Lawton, 7, 36-17-16 coring 2905 ft, showing salt water.

Humble O. & R. Co.'s Webb 1, 6-18-13, testing 2956 ft.

Love Pet. Co.'s Miles 1, 35-17-16, dr 2575 ft.

Morgan et al's Mellor 1, 1-18-16, dr 1100 ft.

Rooker et al's Yarbrough 1, 2-17-16, dr 2710 ft.

Southern O. & L. Co.'s Armstrong 11, 31-17-15, sd 2956 ft.

ERECTING STEEL STORAGE AT NEW MEXICO WELL

Albuquerque, N. M., Oct. 21.—Steel storage is being erected to make a test of the wildcat producer brought in recently by the Midwest Oil Company in the Northern part of the Navajo Indian reservation in San Juan County, New Mexico. This well was reported last week flowing by small heads after drilling into an oil sand around the 825-foot level, and has since been shut in to await the arrival of storage tanks. Indications are that it will prove to be a commercial producer, and as result of its initial showing a number of oil operators and representatives of the major companies in the Mid-Continent fields have been attracted to San Juan County.

Oklahoma City, Okla., Oct. 21.—The Comar Oil Company, owned jointly by Marland Oil and Roxana Petroleum, has increased its capital investment from $2,996,000 to $3,496,000 and the Illinois Oil Company has increased from $243,000 to $288,000.

Toledo, Ohio, Oct. 20.—Substantial operating profits will be indicated by the Paragon Refining Company for the fiscal year ending October 31, 1922, according to officials of the company. Cash on hand totals around $400,000 and bank loans have been reduced from $2,500,000, two years ago, to $650,000 at the present time. Annual meeting of stockholders will be held in December.

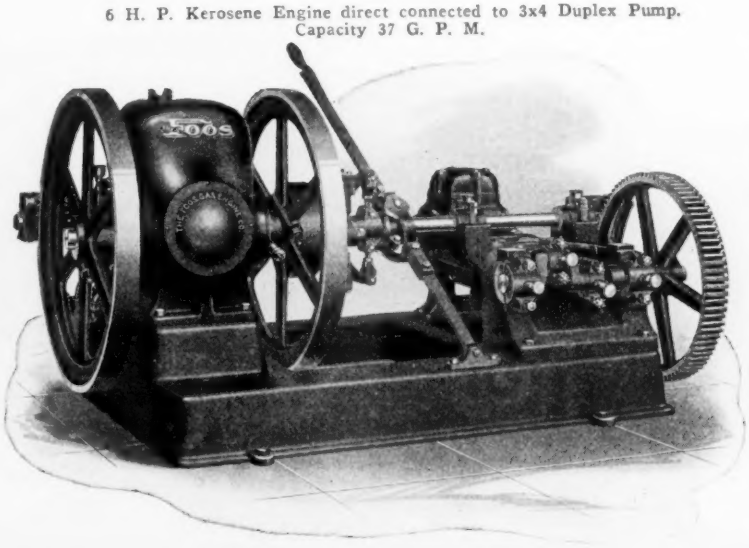
Standard Oil Co.'s Trimbel 2, 1-18-16, set 4½-inch 2926 ft.

Terry Summerfield Oil Co.'s Green 1, 19-19-15, waiting for cas, 2590 ft.

THE FOOS

THERE WILL ALWAYS BE PLENTY OF WATER FOR YOUR DRILLING RIGS WHEN THE FOOS IS ON THE JOB—

6 H. P. Kerosene Engine direct connected to 3x4 Duplex Pump.
Capacity 37 G. P. M.



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Also Manufacturers of The Foos
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Type OK 25, 35, 50 H. P.
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REPAIR PARTS STOCKED IN ALL PRINCIPAL FIELDS

300 Barrell Well Completed in Old Pennsylvania Field

PITTSBURGH, PA., Oct. 23.—An important test was drilled in during the week in review in the old Pennsylvania fields, that shows that there is still room for producers far above the average. The new find was made by the Hope Construction and Refining Company on the S. J. Shriver lease in Springhill township, Greene County, northeast of the hamlet of Garrison, and the best find for several months in Greene County. The well has been estimated at 300 barrels flush and adds some additional territory to develop in the county. This county had seven completions for the week, one being dry, five were gas wells with a casinghead volume of 13,000,000 cubic feet and one was the oil well referred to.

Another very important test for Pennsylvania was the well drilled by Perry and Company on the old David Heir heirs, now owned by a party known as Palio, and two miles in advance of production and may lead up to the opening of a new Gantz sand pool. The well, while only showing for 25 barrels, still puts it in the class of important events, due to its location, and brought about the gathering of many of the oldtime operators and scouts. In Ingomar pool, in Allegheny County, M. M. Walley & Company drilled in a 12-barrel pumper in No. 6 Lyons heirs lease.

Another find of importance was that of the Fort Ryerson Oil and Gas Company in its test on the Norman Lyons lease, in Richhill township, Greene County, when it drilled in a 500,000 cubic foot gas well at a depth of 357 feet, it being found in the Pittsburgh coal formation.

West Virginia appears to be out of the running as far as the completions of wells of 100 barrels or better, for it has not recorded one for a long time. The best completion for the week was made by the Hope Construction and Refining Company in its second test on the A. B. Price lease, in the Clay district of Monongalia County. The next best well was a 10-barrel producer drilled by the South Penn Oil Company on the Sampson lease in the Elk district of Kanawha County.

The 16 gas wells for the week in West Virginia show a volume of 30,000,000 cubic feet.

In the fields east of the Mississippi river during the week a total of 115 wells were completed, of which 21 were dry holes, 46 were gas wells with a combined volume of 66,750,000 cubic feet and 38 were oil wells with a flush production of 1937 barrels, which is quite a heavy decrease from the previous week, but that was expected as the winter season is close at hand and the usual activity in drilling is not shown.

PENNSYLVANIA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Washington County—		
Perry & Co. Palio 1	25	....
Beaver County—		
H. Tope & Co. Braden heirs 2	*	....
Andrew Bros. J. A. Swearinger 1	*	....
E. E. Laughner Economy 91	2	....
Allegheny County—		
M. M. Walley & Co. Lyons heirs 6	12	....
Charles B. Wachter Robert Creese 1	¶½	....
M. Malcovitch & Co. Leonia Troutman 1	5	....
Greene County—		
Fort Ryerson Oil & Gas Co. Norman Lyons 1	¶½	357
Myers, Long & Co. R. L. Shoup 1	*	....
Hope Construction & Ref. Co. S. J. Shriver 1	300	....
Carnegie Natural Gas Co.:		
Jacob Lough 1	¶4	....
Enoch French 1	¶3	....
West Virginia Natural Gas Co. Lewis Power 1	¶2	....
Marshall Oil & Gas Co. Thos. Clark 1	¶3½	....

WEST VIRGINIA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Kanawha County—		
South Penn Oil Co. S. D. Sampson 1	10	....
Gilmer County—		
Hope Natural Gas Co. J. C. Cooper 2	*	....
Tyler County—		
Manufacturers Light & Heat Co. H. & D. Stackpole 1	¶2	....
Putnam County—		
John Bushman & Co. Effie Arbought 1	¶1	....
Marion County—		
Hope Natural Gas Co. E. L. Morgan 1	¶4	....
Marshall County—		
Manufacturers Light & Heat Co. S. T. Yoho 1	¶3½	....
Wirt County—		
Carter Oil Co. N. G. Conant 1	5	....
Jackson County—		
Carter Oil Co. T. L. Board 4	2	....
South Penn Oil Co. Alpin 1	*	2511
Wetzel County—		
Johns Oil & Gas Co. H. Atnill 1	¶3	....
Manufacturers Light & Heat Co. Jane Furbee 1	¶3	....
Doddridge County—		
Trainor & Ash G. W. Farr 1	¶2	....
Trainor & Travis G. I. Marsh 1	*	....
Pleasants County—		
Rexroad & Davis J. Schanaweker 1	¶1½	....
Cunningham & Warden Harvey Mott 2	2	....
Ritchie County—		
Hope Natural Gas Co. H. E. Cunningham 1	¶½	....
Cairo Oil Co. J. B. Marker 2	*	....
Hope Natural Gas Co. Maxwell heirs 3	¶2	....
Calhoun County—		
Coal Fork Oil Co. Matilda Morrison 1	¶½	....
Chemical Oil Co. School House Lot 1	3	....
M. F. Crowley Killars heirs 1	*	....
Monongalia County—		
Carnegie Natural Gas Co. W. F. Scott 1	5	....
Hope Construction & Ref. Co:		
A. B. Price 2	40	....
A. B. Price 3	*	....
Lincoln County—		
J. S. Pridemore & Company:		
Marshall Johnson 1	¶2	....
Marshall Johnson 2	¶2	....
Sovereign Oil & Gas Co. H. Strickler 2	¶2	....
Orlando Oil & Gas Co. Sarah Plumley 1	¶2	....
Huntington Dev. & Gas Co. Greeley Puckett 1	¶2	....

U. S. Pipe Lines' Net Income of $34,000,000

Washington, D. C., Oct. 21.—Interstate Commerce statistics compiled from reports of the 33 principal pipe line companies in the United States show a net income of $34,400,283 for the year ended December 31, 1921. Operating revenues of companies are stated at $115,949,610 and operating expenses at $62,369,908.

Investments in pipe lines are shown as being $365,024,499 and other investments at $287,114,395. The reports show that a total of 55,260 miles of pipe line operated during the last year.

Muskogee, Okla., Oct. 23.—J. H. McDonald of this place has been elected a member of the executive committee of the Kansas-Oklahoma division of the Mid-Continent Oil and Gas Association. Mr. McDonald is president of the Atlas Supply Company.

Tulsa, Okla., Oct. 21.—J. W. Sloan of Tulsa, president of the Oklahoma Iron Works and Oklahoma Tool and Supply Company, has been elected a member of the executive committee of the Kansas-Oklahoma division of the Mid-Continent Oil and Gas Association.

Tulsa, Okla., Oct. 25.—A branch store with a complete stock has been opened at Smackover, Arkansas, by the Bradford Rig and Reel Company. C. W. Geiger is in charge. The general offices of the Bradford Rig and Reel Company are in Tulsa.

CITIES SERVICE OILS

EMPIRE

Yes Sir—from the Empire wells of Oklahoma

Specifications

No. 194½ Oil. Fire 450-460, Cold Test, 20-25. Viscosity, 190-200 at 100 U. Color, 4½.

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No. 183 Oil. Fire, 450-460 F. Cold test 20-25 F. Viscosity 180-190 at 100 U. Color, 3 or better.

"This is the real stuff, produced from a paraffin base crude of the highest quality. You know what that means. For years you have known the value of the paraffin base crude in the production of the best grade of lubricating oil, but possibly you didn't realize that four-fifths of the entire output is taken from Oklahoma."

"Here is the wax actually extracted from the crude in the process of preparing lubricating oil, and our tests of the finished product—both in the laboratory and in automobiles—explain the contagious enthusiasm for this oil."

"Empire Paraffin Neutrals come directly from the world's largest source. We have our own tank cars, which means prompt delivery, and UNUSUAL FACILITIES FOR MAINTAINING UNIFORMITY OF QUALITY."

"Empire Products keep your customers satisfied. Satisfied customers mean increased business and increased profits."

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KENTUCKY COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Monroe County—		
Fred Pederson Kerr-Anderson 1	24	25
Wolfe County—		
Faith Oil & Gas Co. J. B. White 14	10	....
Lee County—		
Tom Scott W. B. Hobbs 2	60	....
Johnson-Magoffin Counties—		
Portsmouth Development Co. 4 Haden Williams	2	....
R. G. Gillespie Elias Conley 1	10	....
Warren County—		
United Pet. Syndicate:		
Sam Martin 8	20	1260
Sam Martin 9	25	1260
Hutton 1	10	1275
Cumberland County—		
McClintock Oil Company:		
A. D. Hood 5	25	547
C. C. Smith 5	50	235
Jake Radford 3	25	280
J. R. Neeley 2	50	212

Jackson County, Illinois, Tests Showing Oil

Vincennes, Ind., Oct. 13.—Only one well was announced from the Indiana fields during the week and that was in the fields of the southwestern section of the state across from the old Illinois field.

There is some unusual excitement in the southwestern part of Illinois, in Jackson County, over a showing of oil in a test well on the Ditch lease, about two miles north of Ava, in what is known as the eastern slope of the structure called the Ava-Campbell Hill gas area. Numerous gas wells have been drilled on this structure and the product is being supplied to residents and business houses at Murphreysboro, the county seat, and in all the wells drilled no commercial showing was found of oil, until the Ditch well was drilled in and while but a few feet in a nice looking sand the owners concluded to give it a shot, with the result that it threw fluid far above the drilling outfit. The well has been shut in and will be put on the pump as soon as the tubing rods are received, and then the value of the well will be known. Oil men state that the well shows from 20 to 40 barrels under a pump, but this is merely guess work. The well is probably 40 miles to the southeast of the Waterloo shallow field in Monroe County, and about 15 miles south and a little east of Sparta, in Randolph County. The new well will encourage further development work in the Ava-Campbell Hill field.

The well of the Ohio Oil Company on the Sparks lease, in Martin township, Crawford County, encountered at a depth of 458 feet, is the shallowest sand yet discovered in that county and known as the Casey sand in which the early big wells were found in the Casey-Westfield pools, in Clark County, back along about 1906 to 1910, and while this sand has been encountered a few times in Crawford County, it has been passed up as worthless during the earlier development, and it is talked that attempts will now be made to give the shallow sand a thorough trying out to see whether or not it is a stable producing sand in Crawford County.

Well in Monroe County, Kentucky, Good for 500 Barrels at 210 Feet

WINCHESTER, KY., Oct. 23.—Operations throughout Kentucky are about at a standstill, with the exceptions of a few spots in Allen, Cumberland, Johnson and Magoffin Counties, and few completions are being made from week to week from any of the sections owing to the cold frosty weather, but there are a large number of wells in various counties that are shut down or due for completion within the next week or so.

The week in review is one of the lightest recorded since last winter and only an advance in the price of crude will have any effect upon the new work. In Johnson and Magoffin Counties the weather has been extremely dry and contractors have been unable to get water for the boilers, but they are not standing idle, as much new material is being transported from the supply houses to the leases, with a view of keeping up considerable drilling during the winter season.

The pipe line of the Paragon Development Company from the Sulphur Creek field in Cumberland County to Neeley's Ferry on the Cumberland river is rapidly nearing completion, and stock tanks are under construction at the river. This company has been testing out the old well on the Hood lease to experiment with the staying qualities of the well, and the past ten days gauge of the well showed that two 500-barrel tanks had been filled and the well getting stronger. Numerous new wells are starting up in the four pools in the county that have shown production and a big supply of material has been moved into the county. Four completions were reported from the county during the week and they covered a wide area, as one well is credited to each pool. In the Neely's Ferry pool, a 50-barrel well was found on the Neeley lease, which is No. 2 at a depth of 212 feet. The Brush Creek field has a 25-barrel well on the Jake Radford lease, at 280 feet; the Bear Creek field, a 50-barrel well on the Smith lease, at 235 feet and the Sulphur Creek field a 25-barrel well in No. 5 Hood lease, at 547 feet.

Operators are of the opinion that deeper drilling will bring about larger production, as the Upper and Lower Sunnybrook sands prevail in Cumberland County and known to be productive in Clinton and Wayne Counties as well as in McCreary County, and while the work may be confined to the more shallow drilling during the winter season, the coming summer will see the deeper formations tested out.

One of the spectacular wells of Kentucky has just been found in the Kettle Creek district in the southeastern part of Monroe County, just across the line from Cumberland County, and near the recently completed gusher on the Kerr farm, that showed a flush of around 500 barrels at 210 feet. This new well that is causing so much commotion, was drilled by Fred Pederson, who gained considerable notoriety in the Sledge-Willoughby pool, between Bowling Green and Scottsville, along the Allen and Warren County line some four years ago, when he brought in a number of gushers on the Sledge lease, some showing close to 2000 barrels at depths of from 300 to 400 feet. But his new well in Monroe County eclipses them all, as when the drill had only gone down 25 feet from the surface an oil pay was found that showed a production of 24 barrels a day, making it without doubt the shallowest commercial oil well in the country. This well is on the Kerr-Anderson lease.

The daily average runs of the Cumberland Pipe Line Company from the Eastern Kentucky fields for the week were 14,303.07 barrels.

Tulsa, Okla., Oct. 21.—The Deck Tank Company of Tulsa has changed its corporate name to the Deck Clamp Tank Company. The capital stock of the concern is $175,000 and the incorporators are J. F. A. Deck of Okmulgee, Oklahoma; and J. K. Adair and Geo. W. Deck of Tulsa. The company has offices in the Kennedy building here.

Oklahoma City, Okla., Oct. 21.—The Ozark Pipe Line Company has increased its capital investment in Oklahoma from $11,132,000 to $11,582,000 according to a report filed with the secretary of state here.

INDIANA COMPLETION

Company, Well, Location	Initial Production bbls.	Depth
Pike County—		
Kraver Pet. Co. Everett Atkinson 1	5	1313

ILLINOIS COMPLETIONS

Lawrence County—		
Indian Ref. Co. Mary Wood 3	30	1786
Crawford County—		
Ohio-Silurian Oil Co. Lamb 9	14	1000
McNeal & Irwin Reinohl 4	5	969
Ohio Oil Co. Sparks 4	10	458
Marion County—		
Hefter, Joy & Co. Ed Gaston 4	70	781
Miller, Mackey & Co. J. Gaetti 1	75	779
Bowles & Co. Rowenskamp 4	50	768
Mt. Carmel Oil Synd. F. & J. Busse 1	20	780

Johnnie McGinn of San Francisco, California, member of the firm of Manly, Riley & McGinn, which owns producing properties in California and Texas, spent the past week in Wichita Falls looking over his interests in the North Texas oil fields.

Safeguarding Your Pipe Purchases

In times like these even the most careful buyer must exercise diligence lest Quality suffer at the expense of Price.

It is said that Quality and the Lowest Price do not always go together. Quality and a Fair Price always do.

It is to our advantage as well as to your own to have you entirely satisfied in all your pipe dealings. A consultation incurs no obligation and may lead to a mutually satisfactory arrangement for serving you.

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BRANCH OFFICES:

Wichita Falls, Texas
Breckenridge, Texas
Houston, Texas
Mexia, Texas
Bartlesville, Oklahoma
St. Louis, Missouri

SOUTHEASTERN OHIO COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Belmont County—		
Drushey Oil & Gas Co. D. T. Phillips 1	*	....
Monroe County—		
Fox Farm Oil Co. J. M. Fox 1	*	....
Holmes County—		
Killbuck-Millersburg Oil & Gas Co. McDowell 5	¶¼	....
Noble County—		
Taylor, Love & Co.'s James Antill 1	¶¼	....
Muskingum County—		
Pure Oil Co.'s Luella Shaw 1	8	....
Washington County—		
E. W. Thornily & Co.'s Jane Thornily 5	8	....
L. Stephens' John Jarvis 1	¶¼	....
K. H. France 1	*	....

CENTRAL OHIO COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Athens County—		
Ohio Fuel Supply Co.'s Lucy Crippen 1	*	....
Vinton County—		
Ohio Fuel Supply Co.'s J. A. Newsom 5	*	....
Fairfield County—		
Ohio Fuel Supply Co.'s H. E. Klinger 1	¶1¼	....
Licking County—		
Wehrle Stove Co.'s N. H. Wright 3	8	....
Ashland County—		
Ohio Fuel Supply Co.'s H. Donaldson 4	1	....
Logan Gas & Fuel Co.'s F. Middling 1	*	..
Hocking County—		
Preston Oil Co.'s J. & L. Stone 8	235	....
Hickman & Wolfe 1	*	....
Perry County—		
Kachelmacher Estate's Gardner-Ellis 3	¶½	....
Lodowici Celadon Co.'s Fee 1	¶¼	847
Allegheny Oil & Gas Co.'s Mary Monahan 19	*	....
Wayne County—		
Ohio Fuel Supply Co.'s George Hutton 1	*	....
Baker & Co.'s Ben Hill 1	¶1¼	....
East Ohio Gas Co.'s Lyman Solliday 1	*	....
Holmes County—		
Medina Gas & Fuel Co.'s J. T. Schantz 1	¶1¼	....
Logan Gas & Fuel Co.'s Eliza Huffman 4	¶1	....
Medina Gas & Fuel Co.'s John Taylor 2	¶¼	....
East Ohio Gas Co.:		
Henry Young 1	¶½	....
A. J. Baker 6	¶2½	....
Medina County—		
Ohio Fuel Supply Co.:		
F. J. Mallert 2	¶2	....
Mary Reed 2	*	....
Hulse & Koontz's McNutt 3	¶2½	....
Daugherty Bros.' F. Gross 1	*	....
Logan Gas & Fuel Co.:		
Henry Bishop 1	¶1¼	....
Henry Speith 1	¶1½	....
L. Stone 2	¶1¼	....
W. P. Whitmore 3	¶¼	....
Knox County—		
Logan Gas & Fuel Co.'s J. W. Medlin 2	¶1½	....
East Ohio Gas Co.:		
John Suiveley 1	10	....
H. Frazier 1	*	....
Alf Helzer 1	¶½	....
G. A. Butts 4	¶¼	....
Ohio Fuel Supply Co.:		
Mike Reichert 3	¶¼	....
F. Keck 2	¶¼	....
Charles Davidson 1	¶½	....

NORTHWESTERN OHIO COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Hancock County—		
Ewing & Montgomery's H. Deeds 6	10	1331
Virhis Oil & Gas Co.'s Cusac Hennery 1	25	1506
Fuller & Co.'s Jake Fellers 14	2	1317
Wood County—		
Unknown Homer Tuller 1	500	1449
Sandusky County—		
Mountler Bros' Molkenbur 8	18	1319
May Oil Co.'s Dolwick 1	2	1305
Paragon Ref. Co.'s C. H. Myers 5	5	1297

Old Northwestern Ohio Field Still Shows Occasional Well

LIMA, OHIO, Oct. 23.—The week proved a fair one considering the conditions in the Ohio fields. The three different fields show a total of 51 wells completed, 13 of which were dry holes, 24 were gas wells with a combined volume of 23,250,000 cubic feet, and 14 were oil wells with an estimated production of 934 barrels.

The Northwestern Ohio field was credited with 7 wells and 662 barrels of the production. Central Ohio had 36 completions, 10 dry, 21 gas wells, with a volume of 22,500,000 cubic feet, and 5 oil wells, with a production of 256 barrels, while Southewestern Ohio's quota for the week was 8 completed wells, 3 dry holes, 3 gas wells with a volume of 750,000 cubic feet gas, and 2 oil wells, with 16 barrels.

While the old Northwestern Ohio field is supposed to have seen its day as far as good wells are concerned, it still shows an occasional well that makes the trade sit up and look, for only a couple of weeks ago the Sun Company brought in a 2,000 barrel well in the Tiffin field of Senaca County, and another sensational well was uncorked during the week in review, but in a spot where nothing of the kind was expected. This new well was drilled on the Homer Tuller lease, west and a little south of Bowling Green, in Wood County and really in advance of the outer edges of the old producing line of the field. When drilled 12 feet in the Trenton limestone, the well started to shoot a spray over the surrounding country, but was put on the pump and in 10 hours filled three 100-barrel tanks and still pumping strong, but all available tankage was filled and the well was shut down. It is estimated as good for 500 barrels or more. It is an edge well.

An exceptionally fine well was developed during the week by the Preston Oil Company, a subsidiary of the Union Gas Company, of Pittsburgh, by the drilling in of a 235 barrel well in its No. 8 on the J. and L. Stone lease, in Section 35, Star Township, Hocking County, the oil being found in the deep Clinton limestone formation, and one of the best found in the Central Ohio oil and gas belt for a long time. Work is letting up to some extent in the developments over the Central Ohio field for the Berea sand oil, but the gas companies are going it harder than at any period during the year, and are running many strings of tools in an effort to secure a greater supply of natural gas for the hundreds of thousands of patrons in several states, that utilize the Central Ohio and West Virginia natural gas.

Southeastern Ohio makes a very poor showing for out of 8 completions three were dry and the same number small gassers, leaving two oil wells which show 8 barrels each.

Drilling has been resumed on the wildcat well located at Napoleon, Jackson County, Michigan, by the Jackson County Oil & Gas Company after a shut down of several weeks with a fishing job and when that was over the contractor was unable to get any coal for fuel. The drill reached a depth close around 2,000 feet.

U. S. Is too Tame for Drilling Contractor

Tulsa, Okla., Oct. 21.—With the baseball season over, the government halting drilling on Indian lands and the Daugherty decision on the "three mile limit" all contributing to the muddle, life in these United States is growing a bit too tame for A. J. Mechling, drilling contractor.

He has applied for a passport for travel, in search of oil, to British Borneo, Dutch Borneo, Japan and British East India. It will be the second adventure for Mechling. From 1910 to 1921, he spent his time in Burma and Madagascar. He is leaving for three years this time.

Mechling started his oil field career as a cable tool driller. Now he is a drilling contractor. In his application he gives his reason for leaving the United States as "travel and adventure."

New York, N. Y., Oct. 21.—Edwin B. Hopkins, consulting geologist with headquarters in New York, has recently returned from a trip to Venezuela, Trinidad and some of the other islands of the British West Indies.

Boston, Mass., Oct. 20.—Directors of Beacon Oil Company have declared the regular monthly dividend of 50 cents on common stock, payable October 30 to stockholders of record October 26.

Packer Perfection

The Layne Patent Lead Cone and Canvas Packer

Point 1—Ratchet Threads

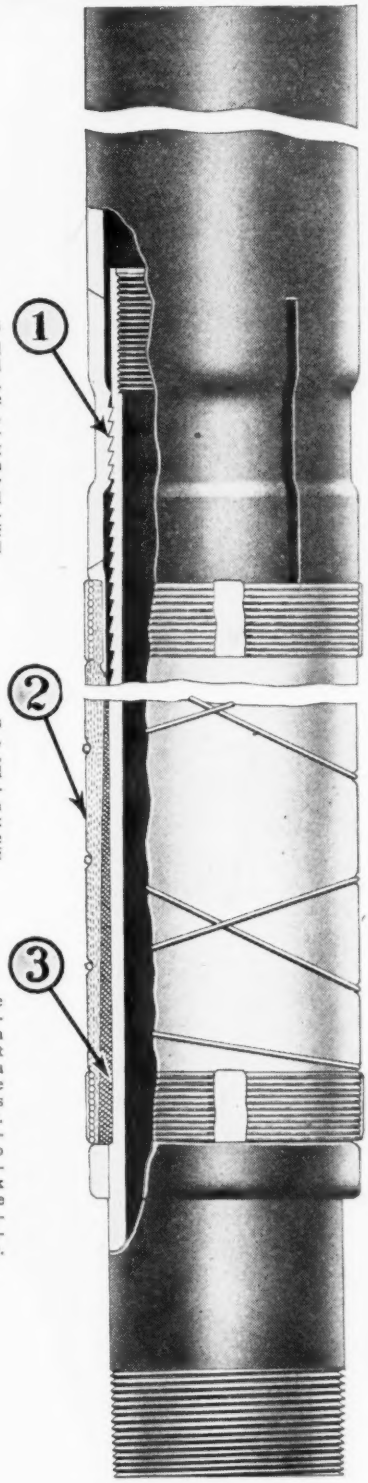
These are left hand buttress threads and being shallow cut, do not weaken the pipe to any extent, preventing the packer from uncollapsing when exposed to high gas pressure. They can be unscrewed and thus partially release the packing if it is desired to pull the packer.

Point 2—Canvas Packing

The canvas consists of eight-ounce duck, strong and durable, yet easily compressed to almost iron hardness, thus insuring a nearly perfect pack the full length of the collapsed section of 12 to 14 inches.

Point 3—Cone Lead

The lead being more substantial and non-compressing than canvas and soft enough, insures a good joint on the pipe and increases the packing capacity. Being smooth, it allows the packing to slide free, thus making a longer pack which insures more contact on well casing and lessens danger of bursting pipe.



Has been proven by many years of use in every oil field to be the best means for sealing off in oil wells.

Its patented construction permits a better and longer pack than is obtainable in other packers, and lessens the danger of bursting pipe. Manufactured in all standard sizes this packer is the most reliable on the market.

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Question Is "Where Do We Go From Here?"

California production in September shows gain of 24,000 barrels a day—Stocks are growing

LOS ANGELES, CAL., Oct. 21.—Producers of oil in California are beginning to ask themselves the question "Where do we go from here?"

During September this state produced 406,000 barrels of oil a day, a gain of 24,000 barrels a day over August, put 2,000,000 barrels of oil into storage, completed 97 wells with a daily output of 76,000 barrels, built 129 new rigs, has 612 wells drilling, has 56,000,000 barrels of oil in storage, has an excess production of nearly 100,000 barrels a day, with 60,000 barrels a day shut in.

Only round numbers have been used in the above summary.

It is pointed out that from a purely mathematical deduction, Long Beach may not exceed its present output. But it was also predicted three months ago that Huntington Beach would not go beyond 30,000 barrels a day. It is now beyond 45,000 barrels a day and going strong. Besides there is Santa Fe Springs to consider. With present drilling programs in the various new fields, operators are finding it difficult to see around the corner.

During the past month stocks of light oil (above 20 gravity) increased 1,211,338 barrels, while heavy oil stocks (below 20 gravity including refinery residuum) increased 775,769 barrels. It is pointed out therefore that refined oil stocks are really piling up faster than fuel oil. Of course a lot of the wells producing only fuel oil have been closed in.

The following summary has been prepared by the California office of the Petroleum Institute:

Field, Refinery, Pipe Line and Tank Farm Stocks of Crude, Residuum and Tops

Heavy Crude, heavier than 20° A. P. I., including Residuum at August 31	39,124,761	
Refinable Crude, 20° A. P. I. and lighter, including Tops at August 31	15,147,433	
Total Stocks at August 31		54,272,194
September production of crude oil		12,205,146
Total		66,477,340
Indicated Consumption		10,218,039
Heavy Crude, heavier than 20° A. P. I., including residuum at September 30	39,900,530	
Refinable Crude, 20° A. P. I. and lighter, including Tops at September 30	16,358,771	
Total Stocks at September 30		56,259,301
Stock increase September		1,987,107

Development

District—	New Rigs Up	Active Drilling	Completed	Daily Initial Output	Active Producing	Abn.
Kern River	..	..	2	35	2,162	..
McKittrick	..	6	..	..	287	..
Midway-Sunset	9	57	18	6,622	2,175	2
Elk Hills	4	14	6	1,701	91	..
Lost Hills-Belridge	1	5	..	...	413	..
Coalinga	3	10	3	45	725	3
Santa Maria	2	10	..	...	322	4
Ventura-Newhall	13	44	5	2,465	564	1
Los Angeles-Salt Lake	..	2	..	...	673	..
Whittier	..	5	..	...	175	..
Fullerton	..	9	..	...	375	..
Coyote	2	7	..	...	230	1
Santa Fe Springs	27	111	18	24,255	45	..
Montebello	..	21	1	170	152	..
Richfield	..	27	5	559	159	..
Huntington-Newport	15	102	11	7,433	141	3
Long Beach	47	111	26	32,712	103	4
Redondo	4	12	2	350	5	..
Summerland	..	..	..	...	135	..
Watsonville	..	..	..	...	8	..
Miscellaneous Drilling	2	59	..	...	...	1
September	129	612	97	76,347	8,940	16
August	109	612	76	52,553	9,006	20
Increase	20	..	21	23,794	*66	*4
Average for year 1921	90	536	57	15,631	9,425	14
Average for year 1920	77	403	49	14,125	9,299	13
Average for year 1919	58	340	47	9,572	8,774	18
Average for year 1918	50	362	50	10,577	8,210	13

*Decrease.

Refinery Near Los Angeles To Use Weisgerbe Process

LOS ANGELES, Oct. 21.—A refinery will be built in the vicinity of Los Angeles, on a site yet to be selected, by a group of well known oil men and capitalists of this city, to use the Weisgerber Process, which, it is claimed, will produce 50 to 75 per cent of gasoline from ordinary crude oil.

This process attracted considerable attention recently when The OIL WEEKLY explained all that is known or available concerning the workings of the chemicals used by the originator of the process. Refinery engineers and chemists from one end of the country to the other wrote for more particulars about the method.

Until the merger of Shell and Union of Delaware interests, the Puente Oil Co. at Chino was using this process, under the supervision of its sponsor, E. C. Weisgerber. It is claimed that miraculous results are obtained, from the chemical reagent which is used in the crude before it enters the still. After the chemical is applied, ordinary refinery practice follows. Just what the chemical is, and exactly how it is used, or in what proportions, etc., remains the secret. It is not a patented process, and is therefore held in strict confidence.

H. S. Botsford will head the new company being formed to operate a refinery under the Weisgerber secret. Botsford is well known on the West Coast. He has been vice president and general manager of the Puente Oil Co. for several years, prior to which he was district sales manager of the Union Oil Co. of Cal., from 1902 to 1914. He is also well known in business circles of southern California, and has held many positions of importance and responsibility.

W. A. Chipps, for over 20 years Superintendent of the Puente Oil Co.'s refinery, will be in the new organization, as assistant to E. C. Weisgerber, who in turn will be Manager of Production for the new company.

The new organization is now in process of formation, and the name has not yet been decided upon. Besides the men named, several Los Angeles business and financial men will be in the company. The Chemical Oil Refining Company is the corporate name of the organization owning the Weisgerber rights, and the new refinery will be operated under a lease of process rights, from this company.

Mr. Weisgerber, who has worked out the chemical process bearing his name, is a native of New Jersey, and was educated

(Continued on Page 57)

Deeper Drilling in California Has Proved to Be Profitable

LOS ANGELES, CAL., Oct. 21.—Huntington Beach field has upset all the theories held relative to its peak of production, and has taken on an aspect which classes it with Santa Fe Springs, due to the uncovering of the deepr sand, with larger wells and higher gravity oil.

Six months ago it was held that the production of this field would not likely get beyond 30,000 barrels a day. Since that time a number of record wells have been completed in the field, some of them from the so-called deep sand below 4000 feet, and the daily production of the field is approaching 50,000 barrels. The deeper wells are showing a higher gravity oil, and it is being predicted that many of the wells formerly completed at higher levels, will be carried to the deep sand.

One of the nicest recent completions in the field is the Miley-Keck 11 of the Amalgamated Oil Company, making 1815 barrels at 4278 feet. It has a pressure of 650 pounds, and it is believed the well will be considerably larger in production when it flows for a few more days.

Shell Company has what is said to be the deepest big well at Huntington, with Ashton 5, a 1300 barrel well at 4545 feet. Bell of Montebello has a 1000 barrel well on the Von Arsdell lease, at 4263 feet. Union Oil Company's 4 Copeland is a 800 barrel well at 4300 feet.

The Huntington Beach field is a discovery of the Standard Oil Company, and the Standard owns a large block of proven acreage which it will probably hold in reserve as much as possible, for future development.

Golden Dome Oil Company is completing its first production in this field, and company officials are estimating the production at 1000 barrels or better.

At Santa Fe Springs

The big 6400 barrel well of the Standard Oil Company is causing no end of speculation. Overenthusiastic writers in Los Angeles are calling it "The Greatest Well in America." But to many Californians "America" means that narrow strip of coast land lying west of the Sierra Nevada Mountains. The Standard's well is the biggest producer in California, and is making high gravity oil for this state, 35.4, from the 4700 foot level.

An important extension to the Santa Fe Springs field is the Hamilton Syndicate's 4 Hamilton, now doing about 1500 barrels a day from the lower level, and extending production about a half mile, proving up a lot of important territory. This well has been watched with interest, since it cemented at the top of a known oil sand, and stood waiting for cement to set before completing. Several additional wells which have been waiting on the Hamilton, will now proceed.

Shell has completed Thompson 1 for 1400 barrels at 3910 feet, and White Star Syndicate has a 200 barrel well at 3710 feet.

Long Beach Has Big Schedule

Estimating the time required for completing the average well at Long Beach, and calculating on the basis of the number of wells drilling in that field, it is shown by the Standard Oil Company that an average of four wells a week may be completed in this field for the next few months.

It is shown, however, that wells in the older and more closely drilled part of the field are falling down considerably, so that operators are freely expressing the opinion that it will take about four good wells a week to offset the decline in the completed wells, and that without some new and sensational development at this time unseen, the field may be expected to hold its own in production until the proven area is practically drilled up, but that it will not be a runaway field, so far as recovery is concerned, as was feared for a time.

In fact during the past week the average number of wells has been completed, Keck-Mutual, Superior Oil Company, Henderson and Fisher all getting nice wells, the biggest being a 2500 barrel producer by W. H. Fisher.

More new work is scheduled to begin in this field than anywhere else in the state. Wells are being too closely spaced, and dozens of companies which could not get a hold in a field where the acreage is held in larger tracts, have been put on the producing list at Long Beach, or have good prospects for becoming producers. Instead of the big companies leading in production, the small companies are leading. Shell has more production than any other organization. Petroleum Midway, General Petroleum and Union Oil all have production in the field. But with all that, it is more nearly a small company's field than anything that has been developed since Burkburnett, Texas.

REFINERY NEAR LOS ANGELES TO USE WEISGERBE PROCESS

(Continued from Page 56)

in Germany, at the Universities of Carlsruhe and Heidelberg. He has served the Badischer Chemical Fabrik of Noble Rotherd Petroleum Production Company in Russia and Persia, as well as many petroleum companies in the United States and Canada.

During the war Mr. Weisgerber served in the Engineers Corps, U. S. A. and won the rank of Captain. He is a member of several scientific societies.

Just what the chemical is that he uses as a reagent in breaking down the heavy hydrocarbons of petroleum, is a deep mystery. It will remain a mystery, for the company owning the rights prefers to maintain it as a secret process, than to patent it and then have to protect the patent against infringers, at a time when all petroleum refining process patents are in a maze of tangled litigation.

It is said that the new company plans to have the refinery in operation by the close of the year.

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MEXICAN FIELDS

MEXICAN PRODUCTION

The daily average production of crude oil in the Mexican fields for the past two weeks is divided about as follows:

	Week Ending Oct. 14	Oct. 7
Cerro Azul-Toteco	109,000	111,000
Tierra Blanca Chapapote	66,000	51,000
Potrero del Llano	32,000	32,000
Central Amatlan	29,000	30,000
Los Naranjos	9,000	9,500
Tepetate Casiano	7,500	7,200
San Geronimo	4,000	4,500
Chinconcillos	3,500	3,500
Alamo	2,000	2,000
Total light oil	262,000	250,700
Panuco Dist. (heavy)	123,000	100,000
Total Mexico	385,000	350,700

Tampico, Oct. 21.—Northern Mexico Fuel Oil Company has been formed by John Boyle of San Antonio and Robert Miller of Monterrey and application has been made for a permit to drill in the northern part of the state of Tamaulipas about half way between Monterrey and Matamoros, some 12 miles south of the railroad. Boyle is president and Miller secretary-treasurer.

Huasteca Preparing to Drill at Least Nine Wells in Juan Felipe

TAMPICO, Oct. 21.—The Huasteca Petroleum Company is assembling material at its camps in Cerro Azul with the idea in view of drilling at least nine wells in Juan Felipe if the legal controversy can be settled in some manner.

Under an old decree it is required that a company have control over 75 per cent of a body of land to secure drilling permits. The Huasteca claims to hold control over 91 per cent of the hacienda, but other companies, especially the Agwi, are claiming the right to permits to drill on small tracts in the hacienda.

Recently President Obregon issued a decree instructing that the companies be given permits to drill on filing large bonds, provided they could conform with the former decree as to holding the proper percentage of control, called "pesos primitivos" in Mexico.

The portion of Juan Felipe to be tested lies southwest of the producing area in Cerro Azul. The Huasteca's No. 25 Cerro Azul has a splendid oil showing and it is located just east of the dividing line between the two haciendas.

A glance at the map on the opposite page, the map having been taken from The Lamp, will show the relative locations of the two haciendas, it being remembered that Huasteca's No. 4 Cerro Azul has been often declared the largest well in the world and is located not far from the boundary line.

Seven of the proposed nine tests to be drilled will be along the Cerro Azul line, according to the recent issue of the Tampico Tribune. The wells will be on a line between Juan Felipe No. 1 and Cerro Azul No. 25.

A recent test shows that Juan Felipe No. 1 is good for 200 barrels a day and will be used for fuel oil but pressure of 1080 pounds is considered positive proof that an offset to the south will result in a big well.

Of the other two wells to be drilled, one will be on the extreme western bound-

MEXICAN COMPLETIONS

Tampico, Tamps., Oct. 21.—Following are the recent completions in the Mexican oil fields:

Mexican Gulf Oil Company's No. 4 Quintanal, Tanchiuin, 1500 barrels, 1710 feet.

Corona's No. 4 Potrero del Ojital, 150 barrels 2055 feet.

Pantepec Petroleum Company's No. 13, lot 114, Chinampa, 4000 barrels, 2067 feeet.

Transcontinental's No. 4, lot 113, Chinampa, 2000 barrels, 1901 feet.

Itamex Oil Company's No. 6, Finca Cruz, Palangana, dry, abandoned, 2310 feet.

East Coast Oil Company's No. 422 Willis, Palangana, 135 barrels, 2240 feet, and No. 423 Willis, 200 barrels, 2260 feet, drilling deeper.

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GULF OF MEXICO
CABO ROJO
TAMIAHUA LAGOON
Huasteca
Aguila
Mex. Gulf
Corona
DOS BOCAS FIELD
Texas Co.
Cortez Oil Corp
Atlantic Ref. Co.
Union Oil Co.
Metropolitan Pet. Co.
International Pet. Co.
Transcontinental Pet. Co.
Agwi Co's
Aguila
Penn Mex Fuel Oil Co
SOUTHERN AMATLAN FIELD
TANGUIJO FIELD
TIERRA AMARILLA FIELD
MOLINO FIELD
ALAMO FIELD
POTRERO-ALAZAN FIELD
COMALES WELL
LOS CUES
ESTEMILLOS
SAN JAVIER
ENCINAL
JAGUEYES
LOMA ALTA LA LLAVE
LA MESA
CARRIZAL
BEJUCO
BARTOLINA
OZULUAMA
LA LAJA
AGUA NACIDA
GRANADILLA
MINCUINI
AGUADA
TAMIJUI
SAN DIEGO
COMALES
TAMONTAO
PITAHAYA
SAN LORENZO
SAN GERONIMO
LA MERCED
SAN SEBASTIAN
AGUA DULCE
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PITA
SANTIAGO DE LA PENA
LLANO DE ENMEDIO
CACAHUATENGO
METLALTOYUCA
MIQUETLA
TEAYO
CASTILLO
OCOTEPEC

ary of the hacienda and virtually an offset to Moralillo No. 1, now drilling at 800 feet in hard white and grey shells while the other is one and a half kilometers east of the village of Juan Felipe where the Huasteca railroad crosses the Juan Felipe road.

It is generally conceded that if the Huasteca gains permits to drill Juan Felipe and succeed in their efforts to prevent the Agwi, Indiana Mexican, Mexican Seaboard, Sinclair Minerales y Metales and other owners of the remaining nine per cent of "pesos primitivos" from drilling that they will gain at least 200,000,000 barrels additional reserve.

In addition to the proposed campaign in Juan Felipe, the Mexican Petroleum subsidiary is continuing an aggressive program in Cerro Azul. Five wells above those at present in process of drilling will be put down. A rig is being built for No. 28; material being hauled for No. 29, while Nos. 30, 31 and 32 are as yet but locations. No. 32 is located between Nos. 4 and 25, while Nos. 29 and 30 are situated in the northern part of the hacienda about one and a half kilometers southwest of the Toteco line with No. 31, 300 meters east of No. 4.

While Cerro Azul is owned in its entirety by the Huasteca, it is the thought of the company to definitely define the outline of the pool in which wells Nos. 3 and 4 are located so as to obtain an estimate of the probable reserve.

Tampico, Oct. 21.—The International's No. 1 in San Sebastian found salt water around 3500 feet, but the company is expected to plug back to 3100 feet, where a showing of oil was found. The hole was drilled with a diamond drill and is a wildcat, as there has been no drilling in this hacienda since 1912.

Many Rigs Resume Panuco Operations

Tampico, Oct. 21.—With the rainy season coming to an end, many rigs are resuming work in the Panuco district, although some sections are still too wet for real progress. It is now possible to make the trip from Tampico to Panuco overland, but the going is bad.

As the result of better weather, the average daily production of the Panuco district is showing an increase and should continue to hold up from now on. During the week ending with October 7, the daily average for the heavy oil district was about 100,000 barrels, but for the week ending October 14, there was an increase of 35,000 barrels daily.

The Cerro Azul-Toteco district during the week ending October 14 had declined to 109,000 barrels daily from 115,000 barrels a day the last week in September. The production is falling off around 5000 barrels daily each week.

OHIO OIL COMPANY STOCKHOLDERS TO MEET

Findley, Ohio, Oct. 23.—The Ohio Oil Company has called a meeting of stockholders for November 24 to approve an increase in capital from $15,000,000 to $60,000,000. This will make a stock dividend of 300 per cent, payable December 30 to stock of record December 1.

This is the first dividend to be paid by the Ohio Oil Company since 1915 at which time Illinois Pipe Line stock was distributed.

ORANGE PUMPING WELL IS DETROYED BY FIRE

Orange, Texas, Oct. 24.—The Sinclair Oil and Gas Company's Granger 4, at Orange, was destroyed by fire at 2 a. m., October 20, the origin of which is believed to have been a spark from the motor or a short circuit.

This well was pumping 140 barrels a day when burned and the total damage done to the rig and derrick is estimated to be around $3000 besides the lost production.

Independence, Kans., Oct. 24. — A branch sales office has been established at Oil City, Pennsylvania, by the Jones Oil Well Reamer Company of this place. A. S. Jones of Independence is president of the company which has an extensive business throughout the oil country.

The Dunn Catcher has only nine parts, including anchor, greatly eliminating mechanical difficulties and possible non-operation therefrom.

(Manufactured under the Guiberson-Richard patent of March 14, 1916, No. 1175298.)

The Dunn (McKissick Type) Automatic Tubing Catcher

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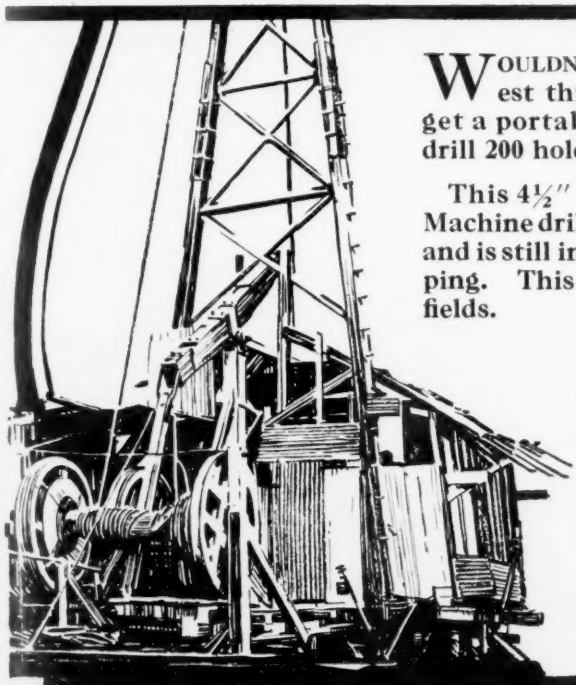

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This 4½" Parkersburg Bull Rope Drilling Machine drilled over 200 holes for Mr. C. W. Ross and is still in first class shape, no signs of stopping. This was in mountainous Kentucky fields.

After all, has it a limit?

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Bowling Green
Burkesville
Scottsville
Whitesville

W. VIRGINIA
Parkersburg
Clarksburg

MONTANA
Winnett
Kevin
Great Falls
Sunburst

KANSAS
Eldorado
Peabody
Florence
Virgil

ARKANSAS
El Dorado

OKLAHOMA
Tulsa
Bristow
Burbank
Drumright
Duncan
Henryetta
Wilson
Hominy
Okemah
Okmulgee
Pawhuska
Slick
Tonkawa
Barnsdall
Shidler

WILDCATS FROM ALL SECTIONS

Several Small Wells in Callahan And Shackelford Counties, Texas

FORT WORTH, TEXAS, Oct. 24.—Drilling activity continues to increase in the shallow field in the northeast corner of Callahan County and around the town of Moran in Southeast Shackelford County, and during the past week several profitable producers were scored. In the latter field, Hobbs and Chenault's No. 3 Jesse English, located in section 32, University Lands Survey, is reported good for 155 barrels of oil daily on the pump from 14 feet of oil sand picked up at 598 feet. A. G. Hseng of Fort Worth's No. 1 English is good for about 15 barrels at 639 feet, while a 10-barrel pumper was completed by the Rio Grande Oil Company from its first test on the J. E. Wild tract with a total depth of 335 feet.

In the Callahan County shallow field, D. H. Moore and associates' No. 1 Joe Neuman, located in section 8, D. & D. A. Lands, is pumping 20 barrels of oil after drilling through three feet of oil sand penetrated at 360 feet. S. G. Roberts' No. 2 R. D. Taylor in section 62 has been completed as a 4,000,000 cubic foot gasser from 465 to 480 feet, and has made arrangements to sell the output to The Texas Company. Locations have been made for two additional tests on the same tract.

In the Ibex pool in Shackelford County, the semi-wildcat tests of E. A. Landreth Company on the Witty tract are giving indications of making producers and extending the proven area of the field. No. 1 Witty is reported flowing by heads when the tools are pulled from the hole. This well encountered gas from 3405 to 3415 feet, and is making oil from a gray lime while drilling below 3555 feet. No. 2 Witty is reported showing considerable gas while drilling at 3385 feet.

The territory surrounding the Dalton wildcat producer in Palo Pinto County failed to contribute any important developments during the past week, although operators are watching closely the Magnolia Petroleum Co.'s Ferris-Dalton 1, which is located about 700 feet west and slightly south of the Dalton well. This test is reported to have drilled through a gray sandy lime formation resembling the Ellenberger lime from 4560 to 4600 feet, and then passed into a sand. Late last week it was reported drilling ahead in the sand below 4615 feet. This test is more than 650 feet deeper than the discovery well of the pool. The Canadian Petroleum Company's No. 1 R. S. Dalton, which has a total depth of 4105 feet, was given a shot of 60 quarts from 4040 to 4055 feet in a black sandy shale, resulting in the gas production increasing to about half a million feet. A shot of 210 quarts was then exploded from 3950 to 4000 feet, but failed to show favorable results.

The wildcat test of Haile and Knight on the Mankins farm, located about a mile from the town of Whitt in Parker County, is making about 1,000,000 cubic feet of gas from the top of a sand hit at 3955 feet. The owners have been having considerable trouble with cavings in the hole, and are now attempting to cleanout to test out the gas pay.

Coastal Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Brazos County—		
Warren Oil Co.'s Mooring 1..	*	4395
Grimes County—		
Navasota Oil Co.'s Vickers 1..	*	3200
Harris County—		
Gulf Prod. Co.'s Warren 19..	*	1000
Walker County—		
Walker Maderson Oil Co.'s 1..	*	2340

DRILLING REPORT

ANDERSON COUNTY—Hudgens et al's Turner 1, dk. Old Colony's Graham 1, lcn. Palestine Oil & Dev. Co.'s Hugo Mounig Plantation 1, waiting on cas. had 14 ft of sand at 1685 ft, shows oil. J. F. Winans et al's Parker 2, dr 1725 ft. Roeser Pet. Co.'s Brooks & Auld 1, sd 3400 ft.

AUSTIN COUNTY—Harris Pet. Co.'s Schurenberg 1, sd 2300 ft. Owens et al's Watson 1, lcn.

BASTROP COUNTY—Smithville Drilling Co.'s Adanchick 1, sd 1000 ft. Triangle Oil Synd.'s Fritag Valenta 1, dr 2025 ft. J. W. Watson et al's Tom Watson 1, sd 430 ft. Elgin Oil Synd.'s Ramsey 2, dr 725 ft.

BELL COUNTY—Nolan-Bell Oil Co.'s Bacon 1, sd 2155 ft. J. B. Hartman's Warrick 1, sd 2335 ft.

BRAZORIA COUNTY—E. P. Maloy et al's Emmett 1, dr below 3090 ft. Rancho Esabella Synd.'s Rudiger 3, sd 4800 ft. Mustang Oil Synd.'s Allison 2 fsh 3675 ft. Oliver Hall Oil Corp.'s Hall 1, sd 1990 ft. Atlantic Prod. Co.'s Strobel 1, dr around 3725 ft. Reed Dev. Co.'s Jamison 1, r to set screen, 3580 ft. Transcontinental's Breen 5, at Old Ocean, bailed salt water 4000 ft. Croesus Oil Co.'s Wilkerson 1, dr 2125 ft. Texas Co.'s Mound 36, Hoskin's Mound, dr 2345 ft.

BRAZOS COUNTY — Cobbs Bros.' Williams 1, sd 2380 ft. Two Rivers Oil Co.'s Tabor 1, sd 1870 ft.

BURLESON COUNTY—Frank Balcer et al's Marek 1, sd 1440 ft, hauling cas. Caldwell Pet. Co.'s Speckman 2, dr 204[illegible] ft. Federal Prod. Co.'s Giesenschlag [illegible] repairing rig 900 ft. Swastaca Oil Co.'s Rogers 2, dr 1325 ft; Rogers 1, co old hole 2800 ft. Chriesman Oil Co.'s Phelps 1, drill stem stuck 600 ft.

CALDWELL COUNTY—United North & South Oil Co.'s Cartwright 4, sd 24[illegible] ft. Producers Oil Co.'s 1, dr 1750 ft.

CAMERON COUNTY—Rio Grande & Gulf Co.'s Champion 1, sd 4690 ft.

CALHOUN COUNTY — World Oil Co.'s Ruth 1, sdtr drill stem at 2250 ft, td 3198 ft.

CHAMBERS COUNTY — Thorning et al's LaCour 1, sd 2440 ft.

CHEROKEE COUNTY—Colliton Oil Co.'s Clapp 1, sd 2750 ft.

COLORADO COUNTY — Columbus Bernardo Oil Corp.'s Kaiser 1, sd 1595 ft.

ELLIS COUNTY—Beecher et al's Witherspoon 1, dr 3750 ft. Rolck-Barday's Hoosier 1, sd 1000 ft.

FALLS COUNTY—Mayflower Oil Co.'s Covington 1, sd 2400 ft. Highbank Oil Co.'s Peacock 1, sd 1625 ft. Penn-Texas Leasing Synd.'s Bargainer 1, sd 2140 ft. Texola & Hill Oil Co.'s Harlin 2, sd 24[illegible] ft. Balto-Texas Oil Co.'s Price 1, dk u[illegible] 3410 ft. Denny-Mexia Oil Co.'s Knapp 1, sd to std 3700 ft. Pearce Pet. Co.'s Clark 1, dr 3100 ft.

FORT BEND COUNTY—Iona Oil Synd.'s Moore 1, at Moore's Mound, preparing to set cas 3115 ft; Hellmuth 1, dk. Gulf Prod. Co.'s Davis 2, dr 3910 ft. Wheat 3, dr 2025 ft. Belvedere Synd.'s Belvedere 1, sd 3500 ft. Big Creek Oil Co.'s Moore & Hager 1, dr 2200 ft. Richmond Fort Bend County Oil Synd.'s Bryan 1, sd for repairs 800 ft. Neilan Oil & Ref. Co.'s Gobbels 1, dr 2475 ft; Brown 1, setting 8-inch, td 2630 ft. Gulf Dev. Assn's Voegell 1, dr 3590 ft; Peckham 1, lcn. Lee et al's Ahlers 1, rigging up heavy rig 1450 ft. Booth Oil & Dev. Co.'s Booth 1, set cas 240 ft. Dr. Griffith et al's Moore 1, m 2445 ft, td 2885 ft. Dr. Miller's Armstrong 1, located on the Armstrong tract, one mile south of the Iona Oil Synd.'s Moore 1, moving out dk and rig.

GALVESTON COUNTY — Sun Co.'s Guidry 1, dr 800 ft. Texas City Oil Corp.'s Logan & Cook 1, sd 700 ft. The Pioneer Oil Co.'s Johnson 1, sd 100 ft. Patton Oil Co.'s Cade 5, sd 180 ft. High Island Mineral Co.'s 1, sd 225 ft. Galveston Oil Corp.'s Cash 1, lcn. Gordon et al's Fee B-1, dr 450 ft.

GONZALES COUNTY—Pioneer Oil & Gas Co.'s Patterson 1, preparing to set cas 2050 ft. H. W. Brewer et al's Billings 1, to resume dr this week at 1200 ft. Bryan & James' Moses 1, located 15[illegible] ft south of north line of the David Moses League, Block 5 of the Bryan James subdivision, spudded in.

GRIMES COUNTY—Terry Dev. Co.'s Upchurch 1, sd 685 ft.

HARRIS COUNTY—Texas Explo[illegible]

RECOGNIZED PETROLEUM GEOLOGISTS

tion Co.'s Warren 5, salt water 4330 ft, sd; Warren 7, dr 810 ft in rock. Betty Lee Oil Co.'s Neese 1, sd 1870 ft. Tar-Tex Oil Co.'s Stewart 2, sd 1800 ft. The Humble Gulf Coast Oil Co.'s Dunks 2, sd 3200 ft. Willow Mound Oil Co.'s Gebhart 1, sd 2200 ft. Garrett Oil Co.'s Townsite 2, dr below 3075 ft. Ship Channel Oil Co.'s Atkinson 2, rigged up and sd. Giesecke et al's Giesecke 1, dr 2675 ft. Monarch Oil & Ref. Co.'s Hautier-Moyle, Green's Bayou, dr 1820 ft in gumbo. Texas Southern Pet. Co.'s Riden 1, sd 3270 ft. J. C. Stribling et al's Seaureau 1, at Greens Bayou, dr below 2800 ft in gumbo.

HARDIN COUNTY—Votah Oil Co.'s Swift 1, sd 2120 ft. C. G. Hooks et al's Dey 1, sd 1400 ft. E. F. Simms' Olive Sternenberg & Co. 1, located on the Joseph Landis survey 2, dr 350 ft.

HENDERSON COUNTY—Haynes et al's Woods 1, sd for pipe 2675 ft. Jones & Vaughn Oil Corp.'s Martin 1, sd 2980 ft. Pine Grove Oil Co.'s Brown 2, sd for repairs 315 ft. Tidal Oil Co.'s Moore 1, dr 3725 ft. Union Pet. Co.'s Smith & Logan 1, dr 3200 ft.

HIDALGO COUNTY—La Lomita Oil Synd.'s La Lomita Hill 3, twisted off 2185 ft. Dale L. Smith & Co.'s Fernandez 1, sd 2875 ft.

HOUSTON COUNTY — Porter Oil Co.'s Austin 2, sd 2395 ft. California Oil Co.'s States Eastman 1, dr 2200 ft. La-Tex Oil Co.'s Driskell 1, dr 2700 ft.

JACKSON COUNTY—Jackson County Oil Synd.'s Drushell 2, sd 2600 ft; Fuqua 1, sd 2200 ft. J. W. Young's Henley 1, sd 160 ft. Vanderbilt Pet. Co.'s Koop 3, dr 3660 ft.

JEFFERSON COUNTY—Houston Oil Co.'s Pipkin 2, dr below 2600 ft. Ball Ridge Pet. Co.'s Tyrell 1, sd 3140 ft. Seaport Pet. Co.'s Emly 1, sd 4200 ft. Wilson Oil Co.'s Broussard, rigged up and sd.

LAVACA COUNTY—Hillja et al's Hillja 2, sd 1245 ft. Lavaca County Oil Co.'s Laass 1, dr 2550 ft.

LEON COUNTY—D. & P. Synd.'s Heath 1, rigged up. Lang & Brown's Bolder 1, sd 2765 ft.

LIBERTY COUNTY—Whaley-Cove Oil Co.'s Neils 1, sd 1010 ft. Fairchild Pet. Co.'s Peeler 1, dr 3600 ft in shale.

MADISON COUNTY — Stone King Stipe's Jones 1, sd 1800 ft. R. S. Ayers & Currie's Herring Estate, dr 2350 ft. Hewell et al's Martin 1, sd 1800 ft. Midway Oil Co.'s Sea 1, dr 1550 ft.

MATAGORDA COUNTY—Cooper Pet. Co.'s Culver 1, sd 3200 ft. Economy Oil Co.'s Taylor 1, sd 3850 ft. Texas Gulf Sulphur Co.'s Big Hill Townsite 1, sd 1450 ft; Big Hill Townsite 2, sd 2690 ft. Wilkinson et al's Wadsworth 1, r to bottom of hole 3000 ft. Cedar Lake Oil Co.'s Phillips 1, dr 1050 ft.

McCLENNAN COUNTY—Foster Oil Co.'s Schnecker 1, sd 1660 ft. J. J. Kingsbury's Williams 1, sd 440 ft. Mexia Commonwealth Pet. Co.'s Holloway 1, sd 1160 ft. Tudor Oil Co.'s Shelton 1, sd 1950 ft.

MILAM COUNTY—S. A. Guiberson's Posey 1, dr 3150 ft; Posey 2, sd 1545 ft. Tracy Maysfield Oil & Gas Co.'s Mays 1, sd 180 ft. Twin City Oil & Dev. Co.'s Bremond 1, sd 3395 ft. Norman Pet. Co.'s Watt 1, sd 1395 ft. Davis et al's Tracy 1, sd 795 ft. United Workers Oil Assn.'s Sneed 2, sd 600 ft. Mexia Air Line Synd.'s Reed 1, fsh for bit 1435 ft The Lee Oil Co.'s Neuhaus 1, dr below 900 ft. Milano Uplift Oil Synd.'s Ashley 1, rigged up. R. E. Adams et al's Caywood 2, dr 900 ft. R. J. Barnes et al's Wm. Swan 1, lcn. Fogle & Marsh's Sandy Creek 1, dr 500 ft. O. T. Berry et al's Tom Robertson 1, dr 900 ft. F. C. Nelson's C. A. Laeffere 1, rigged up.

MONTGOMERY COUNTY—Tamina Prod. Co.'s McDermott 2, rigged up. Wilburton Oil Co.'s Smith 2, dr 800 ft. J. B. Hewitt's Folson 1, southwest corner G. W. Madeley lease, L. Y. Folson survey, lcn. Compers Oil Co.'s Medley 1, sd 300 ft.

POLK COUNTY—Godley Oil & Gas Co.'s Polk County 2, sd 3000 ft. Watner et al's Falkner 1, sd 2800 ft.

ROBERTSON COUNTY—Kentucky-Texas Oil Co.'s Walker Bros. 1, sd 3355 ft. Texas Central Pet. Co.'s Allen & McCrary 1, sd 3516 ft. Big Mexia Chief's Taylor 1, sd 1730 ft. Franklin Oil Co.'s Boyd 1, dr 4320 ft. Campbell-Mexia Pool's Quick 1, dr 3475 ft. Texas Union Oil Co.'s Moorehead 1, dk. Silver Bell Oil & Ref. Co.'s Brown 1, sd 3545 ft. Mud Creek Oil Co.'s Marquez 1, sd 3340 ft.

SABINE COUNTY—John Deering et al's Harris 1, sd 3500 ft.

WALKER COUNTY—Prison Commission's Prison 2, sd 3465 ft. South Texas Prod. Co.'s Jones 1, sd 2400 ft. Union Oil Synd.'s 1, lcn. Lancaster-Dick et al's Eastham State Farm 1, dr 3280 ft; Vivian 1, dr 1800 ft. Currie et al's Ferguson State Farm 1, r 3225 ft. Walker Maderson Oil Co.'s 2, lcn. Shackelford et al's 1, on Anderson survey, setting cas to test 400 ft, shows little oil and heavy gas.

WALLER COUNTY—Hulsey-Fletcher-Bailey Oil Co.'s Baines 1, sd 3275 ft.

WHARTON COUNTY—Hamilton Oil Co.'s Barkley 1, sd 3020 ft.

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Another Dry Gasser For Montague County

Wichita Falls, Texas, Oct. 24.—Montague County's wildcat activity commanded additional attention late last week as result of The Texas Company's No. 1 J. E. Lemons encountering a gas formation from 796 to 824 feet good for 20,000,000 cubic feet of dry gas after the drilling crew had just finished mudding off 70,000,000 cubic feet of gas production from 762 to 796 feet. This test is located about nine miles north of the town of Nocona, and also showed good for about 12,000,000 cubic feet of gas from a gas sand at 735 feet. The last gas pay was drilled into while carrying a heavy column of mud and water in the hole, but the pressure was sufficient to force the gas through this obstruction to the surface at the rate of 20,000,000 cubic feet. Including the gas formations already drilled through and mudded off, this well has a potential gas production of more than 100,000,000 cubic feet.

Wildcat activity in Wichita County has suddenly been diverted to the east corner of the county to test out some favorable looking structure that has been looked upon as condemned territory on the strength of tests drilled during the "boom days" of Burkburnett. G. Clint Wood and associates of Wichita Falls have acquired considerable acreage on and surrounding the J. E. Holly tract on the Henry Hastie Survey, abstract 92, and early this week spudded in on a location made in the south central part of the tract. Rotary equipment is being used, and it is understood that the test will drill to 2000 feet or below. A short distance to the northeast in the same survey, but on the L. F. Ramming farm, Smith, Haines and associates began rigging up a rotary derrick this week for a test. Several other tests are reported as being contemplated to start drilling in a few weeks. Leasing activity has been brisk in this section of the county on the strength of these tests.

North Texas Wildcats

(Note—The drilling report below does not show wells that are shut down indefinitely.)

CLAY COUNTY—Barker & Shelby's J. N. Craig 1, sd 715 ft. Clark & Cowden's J. F. Turner 1, dk. Dean & Morris' E. F. Davidson 1, dr 310 ft. Gulf Production Co.'s C. M. Worsham 1, ur 1850 ft. Nebraska Oil & Gas Co.'s W. H. Myers 1, set cas 2650 ft. Lone Star Gas Co.'s Stine 15, rigging up star 1720 ft; Edrington 3-A, dr 2378 ft. Riddle et al's W. J. Hawthorne 1, dr 1200 ft. Scaling Oil Corp.'s Geo. Scaling 1, sd 980 ft. Stover & Shira's J. H. Spivey 1, sd 660 ft. Talbot et al's Burns 1, sd 800 ft. The Texas Co.'s Myers 45, dr 1790 ft; N. H. Martin 6, dd 1225 ft.

COOKE COUNTY—Big Indian Oil Co.'s B. W. Davis 1, fsh 290 ft. J. W. Donehoo's B. Gunter 1, dr 1200 ft. Powell et al's Whaley-Jones 1, co 990 ft.

DENTON COUNTY—Gen. E. Lee Synd.'s J. N. Lee 1, dr 2100 ft. Hill Crest Oil & Dev. Co.'s J. N. Rayzor 1, dr 850 ft.

GRAYSON COUNTY—Revere Oil Co.'s Exstein 1, sd 2390 ft. Zee Tex Oil & Dev. Co.'s G. W. Cannon 1, sd 1950 ft; Griffin 1, set cas 500 ft.

HARDEMAN COUNTY—Frizell et al's A. J. Norton 1, co 2850 ft. Mid-West Pet. Co.'s Mulkey 1, sd 2520 ft. Nee-No-Shee Oil Co.'s Stewart 1, sd 2750 ft. Walker Oil Co.'s W. L. Lance 1, dr 2350 ft.

HASKELL COUNTY — Glenn Pet. Synd.'s Reynolds 1, dr 2100 ft. Commonwealth Oil Co.'s Ballard 1, sd 1000 ft. Wert & York's R. V. Colbert 1, sd 2200 ft.

JACK COUNTY—Avis Developer Co.'s Davis 1, dr 65 ft. Barrett et al's Mrs. E. Leatherwood 1, sd 3000 ft. Fortuna Oil Co.'s Halsell 1, set cas 515 ft. Mitchell Oil Co.'s Myers 1, dr 995 ft. Mercier & Casey's Hoefle 1, dk. Ralco Oil Co.'s Loving 1, dr by tools 3515 ft. Silver Star Drilling Corp.'s Coker 1, fsh 950 ft.

KNOX COUNTY—Brazos Bend Oil Co.'s J. E. Clark 1, dr 1000 ft.

MONTAGUE COUNTY—Bowie Chief Oil Co.'s C. H. Boedeker 1, sd 1765 ft. Boyd Drilling Co.'s Dr. Potter 1, dr 1780 ft. S. L. Fowler et al's S. L. Fowler Ranch 1, ur 2110 ft. Petroleum Producers Co.'s J. W. Maddox 1, shut in gas well good for 30,000,000 ft, 845 ft. Raymond Oil & Dev. Co.'s Summerour 1, r 1800 ft. The Texas Co.'s J. E. Lemons 1, making 20,000,000 ft dry gas from 796 to 824 ft, set cas 845 ft.

WILBARGER COUNTY—Aurora Oil & Gas Co.'s F. Ogleby 1, testing 2400 ft. Davis & Wood's M. C. Rogers 1, dr 520 ft. Number Nine Oil Co.'s W. T. Waggoner 1, dr 1175 ft; Waggoner 2,

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sd 525 ft; Waggoner 3, rigged up and sd; Waggoner 4, dk. Tex-Wyoming Oil Co.'s C. Zipperly 1, dr 1875 ft. Zacaquiesta Oil Co.'s A. B. Wharton 1, sd 2250 ft.

WISE COUNTY—Booneville Oil & Gas Co.'s J. O. Castleberry 1, dr 45 ft. Flickenger et al's Whatley 1, sd 3858 ft. Herbert Oil & Gas Co.'s R. B. Banks 1, sd 300 ft. Keystone Pet. Co.'s Askew 1, sd 3250 ft. Michigan Oil & Gas Co.'s Young 1, dr 1756 ft. Scott & Henter's Askey 1, rigging up.

Texas Panhandle Wildcats

(Note—The drilling report below does not show wells that are shut down indefinitely.)

CARSON COUNTY—Gulf Prod. Co.'s S. B. Burnett 3, dr 310 ft; J. I. Wynn 1, pulling 6⅝-in cas 3680 ft. Silk et al's S. B. Burnett 2, lcn. The Texas Co.'s S. B. Burnett 1, showing oil, sd 2995 ft. Tipton et al's McConnell 1, made 25,000,000 ft gas from 2440 to 2465 ft, ur 2460 ft. H. H. Temple et al's Harrell 1, bldg rig.

COLLINGSWORTH COUNTY—United Oil Co.'s Hennard 1, dr 3020 ft. Campbell et al's Stokely 1, sd 1260 ft.

DALLAS COUNTY—Dalhart Oil & Gas Co.'s James 1, dr by junk 1650 ft.

DONLEY COUNTY—Atlanta Oil & Dev. Co.'s Grogan 1, sd 3455 ft. Swanson Oil Co.'s Moreman 1, sd 2290 ft.

GRAY COUNTY—J. Harvey et al's Brown 1, sd 3095 ft. W. W. Silk et al's G. W. Medley 1, dr 1850 ft.

HALL COUNTY—Craola Oil Co.'s Funston 1, sd 1080 ft. Home Peoples Oil Co.'s Barnett 1, fsh 2410 ft. Swanson Oil Co.'s Sexeours 1, sd 700 ft.

HUTCHINSON COUNTY—Coble Haywood Synd.'s Coble 1, dr 3775 ft. Gulf Production Co.'s Dial 1, plugging back to 3050 ft, td 3660 ft. H. T. McGee et al's Smith-Cappers 1, co 3166 ft. J. Whittington's R. Sandford 1, dr 515 ft.

MOTLEY COUNTY—Minneapolis Oil Corp.'s Echols 1, sd 4707 ft.

POTTER COUNTY — Amarillo Oil Co.'s L. Bivens 3, straightening hole 2450 ft; Masterson 3, rigging up, td 2750 ft.

Oklahoma Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Murray County—		
Cornhuskers Oil Co. Wolf 1, NWc SW 16-1-3	*	2365
Pontotoc County—		
American O. & R. Co. Merryman 1, SEc NE 17-4-5	¶12	1260

Monticello, Ark., Oct. 23.—The Garrison Syndicate has set liner and is preparing to bail its Smith wildcat in section 26-13-5, Drew County, in which 20 feet of sand has been found at a total depth of 3,083 feet.

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Central West Texas Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Callahan County—		
Carpenter, Long et al's R. H. Quall 1	*	340
D. H. Moore's Joe Neumann 1	20	363
S. G. Robert's H. D. Taylor 2	¶4	480
Palo Pinto County—		
I. B. McGarr & Son et al's R. S. Dalton 1	¶5	4220
Shackelford County—		
Chenault Oil Co.'s English 3	155	612
Ilseng's English 1	15	640
McGillis' Mason 1	*	560
Rio Grande Oil Co.'s Wild 1	10	335

DRILLING REPORT

HOOD COUNTY—Cameo Oil Co.'s Williams 1, sd for water 1045 ft. Iowa Bankers Oil Co.'s I. A. Rylee 1, dr 315 ft. B. H. Cogsdell et al's D. W. Campbell 1, rig.

JOHNSON COUNTY—Johnson County Oil & Dev. Co.'s Rhodes 1, showing oil, sd for cas 3755 ft.

PALO PINTO COUNTY—Andrews & McFarland's D. C. Harris 1, sd for water 760 ft. Will Anderson et al's Mrs. W. P. Anderson 1, sd 3555 ft. Ashe Synd.'s Mrs. J. B. Hart 2, dr 670 ft. Black-Dalton Oil Co.'s H. H. Green 1, rigged up and sd. Buffalo-Brazos Oil Co.'s R. S. Dalton 1, sd 1160 ft. Big Four Oil Synd.'s Pennington 1, rig. California-Dalton Oil Co.'s R. S. Dalton 1, sd 3895 ft. Canadian Pet. Co.'s Pennington 1, showed some gas after two separate shots, sd 4105 ft. Clark & Burch's Mrs. L. F. Conklin 1, showing oil and gas, sd for gas 2295 ft. Cobb, Sivall & Johnson's J. H. Robinson 1, skidded rig, dr 425 ft. S. C. Cunningham et al's B. M. Poer 1, lcn. Dalton-Clark Oil Co.'s H. H. Green 1, sd 4035 ft. Dehart & McKay's Seaman 1, sd 950 ft. Dalton Pet. Co.'s R. S. Dalton 1, rig. Dalton Oil & Gas Co.'s R. S. Dalton 1, fsh 3575 ft. Dalton Oil Co.'s R. S. Dalton 2, fsh collapsed cas 3715 ft; Dalton 3, rig; Dalton 4, rigged up and sd. Dittman Oil & Gas Co.'s Hughes Heirs 1, sd 3815 ft. Empire Gas & Fuel Co.'s Gill 3, machine. Gibson, Sinclair & Strong's J. T. Holt 1, sd for water 1285 ft. Hart Oil Corp.'s Mrs. J. B. Hart 8, sd for cas 2905 ft; Hart 9, showing oil after shot, co bridge 3270 ft. J. P. Harris et al's J. T. Holt 1, timbers. Heydrick Oil Corp.'s Caudill 1, rig. J. B. Hedrick et al's Huey 1, dr 1175 ft. A. A. Haubert et al's Tipton 1, sd 360 ft. H. N. Harris et al's G. N. Weldon 1, sd for water 1695 ft. E. G. Johnson et al's Howard 1, sd 2570 ft. Littlefield Oil & Gas Co.'s R. S. Dalton 1, swedging collapsed cas 3810 ft. Milton & Floyd's Malry 1, sd 750 ft Magnolia Pet. Co.'s Ferris-Dalton 1, dr in sand 4610 ft; Ferris-Dalton 2, sd 1240 ft. S. W. Manning et al's Hitson 1, sd 410 ft. McPhail Oil Co.'s Eubanks 1, showing oil set cas 2140 ft. Nash & Windfohr's Eubanks 1, mudding cas 3430 ft. Nelson Oil Synd.'s Finch 2, co to resume dr, td 3160 ft. Owens & Burkett's Gray-Sanger 1, showing lots of oil and gas, fsh tools 4220 ft. Phoenix Oil Trust's R. S. Dalton 1, fsh tools 1995 ft. Producers Oil & Gas Co.'s R. S. Dalton 1, sd 200 ft. Palo Pinto Oil Co.'s Stuart Bros. 2, oil in hole, sd for shot, td 1705 ft. Roddy et al's Carter 1, fsh tools 1445 ft. Ross & Brooks' Pennington 1, making 1 million ft gas, sd 4120 ft; J. I. McClure 1, rig. O. R. Rochelle's Fee 1, sd for cas 3995 ft. A. T. Strong & Co.'s L. E. Seaman 1-A, hole full oil, sd 3160 ft. Rufus G. Smith's Seaman 1, oil in hole, co and fsh tools 3170 ft. Silver Rock Oil Assn's Moseley 1, rig. Southern States Oil Co.'s Belle Raquett 1, showing oil dr 3285 ft. Sands & Thompson's Fee 1, dr 2375 ft. Sun Co. & Pender et al's Mrs. J. B. Hart 2, lcn. Marshall Spoonts' J. B. Doyle 1, spd and sd. J. W. Sappington et al's R. S. Dalton 1, rig. Southard Pet. Co.'s W. M. Bird 1, rig. Scott & McClure's R. A. Wheeler 1, spudding. H. L. Singleton et al's W. Holt 1, lcn. Tibbetts, Johnson & Ashburn's J. K. Weldon 1, sd for water 695 ft; McClure 1, timbers. Thompson, Senter & Nance's Logsdon 1, sd 685 ft. D. A. Upham et al's Belding 3, sd 3775 ft; Belding 5, fsh cas and tools 1980 ft; T. R. Ennis 1, dr 2625 ft; J. H. Bradford 1, dr 315 ft. F. M. Watson Jr. et al's Clepper 1, lcn. Webb & Murphy et al's P. Dalton 1, spd and sd. Youkan Oil Co.'s Seaman 1, spd and sd.

PARKER COUNTY—Capital Petroleum Co.'s McFarland 1, sd 1505 ft. Dalsa Oil Co.'s Reynolds 1, ur cas 2335 ft. Dittman-Thompson et al's Fondren 1, rig. Hale & Knight's Davis 1, sd 2905 ft; Bradley 1, sd 4500 ft; Mankins 1, making 1 million ft gas, co with cavey hole 3955 ft. Jackson & Cathcart's Emberlin 1, sd 3005 ft. I. B. McGarr et al's Estes 1, sd for cas 3290 ft. Talbert Drilling Co.'s Gilbert 1, spd and sd for water.

SHACKELFORD COUNTY—Brannon & Murray's English 1, dr 185 ft; English 2, dr 175 ft. Brown & Co.'s J. F. Sedwick 1, ur 2210 ft. Chenault Oil Co.'s English 4, dr 400 ft; English 5, dr 160 ft. Chandler's Elliott 1, spudding. Childress' Morrison 1, good show of oil, sr cas 570 ft. Coopers' Broyles 1, dr 260 ft; Huskins 1, dr 125 ft. Deane Oil Corp.'s Merriot Heirs 1, sd 1870 ft. Dawson & Hubbard's J. D. Fite 1, rig. DeArmand Bros' Townsend 1, rigging up. Empire Gas & Fuel Co.'s Brazzell 1, sr 2755 ft. Gilliland & Griffith's W. A. Carter 1, sd for repairs 255 ft. Hale et al's McClendon 1, dr 640 ft. Hutton, Hickey & Martin's Hoyden 1, spd and sd. Humble Oil & Ref. Co.'s R. A. Elliott 1, pul cas to sr 2165 ft; Lunch 1, sr 2945 ft. Ibex Oil Co.'s Wm. Poindexter 6, plugging back from 4160 to 3885 ft for shot. A. G. Ilseng's English 2, dr 340 ft; English 3, rig. Johnson et al's Pritchard 1, spudding. Keyes' Broyles 1, timbers. E. A. Landreth Co.'s Brazzell 1, dr 3755 ft; Witty 1, flowing oil by heads dr 3360 ft; Witty 2, showing gas dr 3385 ft; Wm. Poindexter 1, dr 1945 ft. Lassiter & Farrell's Hayden 1, spudding. McLendon et al's English 2, dr 575 ft. Murphy & Bolanz' Conrad 2, ur 3625 ft. Scott & Witt's J. V. Trueheart 1, sd 3625 ft. Rio Grande Oil Co.'s Wild 2, dr 535 ft. Revere Oil Co.'s English 1, fsh tools 475 ft. Rardin & Hill's Morris 1, rig. S. D. C. Co.'s Fite 1, run cas 1735 ft; Fite 2, dr 460 ft. Carl Scribner's Webb 1, fsh tools 615 ft. Sam Scupas' Rice 1, dr 455 ft. Standcliff et al's Pritchard 1, skidding rig, td 500 ft. The Texas Co.'s Osborne 3, lcn; Wild B-4, dr 565 ft; Tankersley 1, dr 1460 ft. Welch Bros.' J. H. Elliott 1, sd 465 ft. Weaver & Tanner's McClendon 1, dr 150 ft. White et al's Pritchard 1, jkd hole, td 275 ft.

TARRANT COUNTY—Erie Oil & Gas Co.'s Cartwright 1, dr 585 ft. Fort Worth Oil Co.'s J. W. Wray 1, dr in shale 4290 ft. Texland Prod. Co.'s Dr. W. H. Davis 1, rig. Souse et al's Henderson 1, dr 1765 ft.

BORDEN COUNTY—Broderick & Calvert's A. J. Long 1, lcn. C. W. Jones Drilling Co.'s F. M. Long 2, dr 2120 ft.

BREWSTER COUNTY—Brewster Oil Co.'s Kokernot 1, sd 1675 ft. Marathon Oil Co.'s Nigger Creek 1, sd 2360 ft. Dugout Creek 1, sd 2535 ft. Portland Oil Co.'s States 1, sd 2100 ft. Nine Points Oil Co.'s Perato & Finnell 1, dr 1500 ft. Arco Development Co.'s H. L. Kokernot 1, sd 3440 ft.

COKE COUNTY—Mexia Equitable Oil Co.'s W. J. H. Hodges 1, dr 1810 ft.

CONCHO COUNTY—The Texas Co.'s Houston Bros. 1, dr 600 ft. Texas-Mexia Oil Co.'s Schultz 1, sd 1410 ft.

CRANE COUNTY—B. M. Hatfield Oil Co.'s University 1, sd 315 ft. Texas-Mexia Drilling Synd.'s W. W. Waddell 1, rigged up and sd.

CULBERSON COUNTY—Consolidated Sulphur Co.'s Johnson 1, sd 115 ft. G. W. Gossert's Sayles 1, sd 460 ft. T. W. Owens' Jones 2, sd 2845 ft. J. D. Werner's Sayles 1, sd 2285 ft.

DAWSON COUNTY—Lamesa Oil & Gas Co.'s John Burns 1, co at 1765 ft, sd 2095 ft.

ECTOR COUNTY—Farmers Oil Co.'s Andy Newman 1, sd repairs 1315 ft.

EL PASO COUNTY—Burns & Knight's Fee 1, fsh cas 1495 ft; Fee 2, timbers.

FISHER COUNTY—Mineola Oil Co.'s Lanious 1, sd 3210 ft.

GARZA COUNTY—Woodward Oil Co.'s J. M. Borne 1, sd 1965 ft.

GLASSCOCK COUNTY—General Oil

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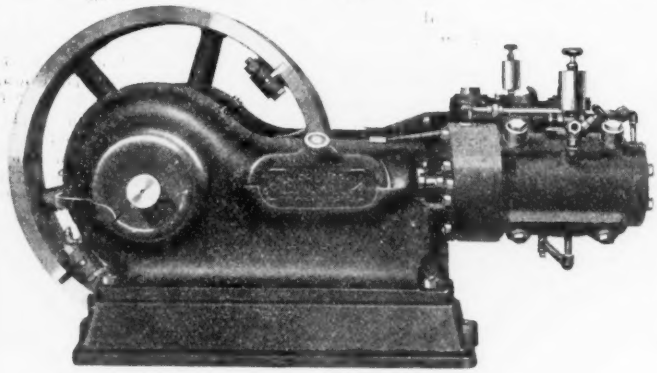
GARDNER COMPRESSORS



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Although compressed air for power and mechanical purposes has been in use for years and years it has been confined to the low stages of compression until within a comparatively recent period. It is only within the last half century that the greatest practical uses of this natural utility have been so highly developed.

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Economical use of air compressors is procured through correctly designed and properly built machines; machines that are durable, efficient, with low up-keep cost and that are not extravagant in power consumption.

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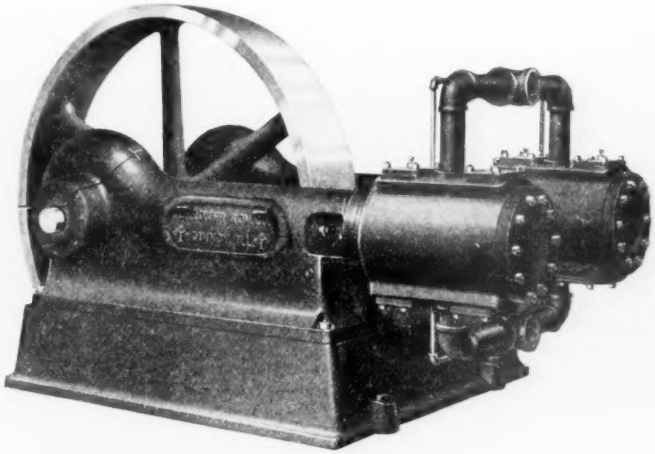
Gardner Duo-Plate Valve Vacuum Pump

Used in gasoline extraction plants for bringing gas from the wells.



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Co.'s L. S. McDowell 4, showing oil from gray lime fsh 6⅝-inch cas 3785 ft. Cushing Ranch Drilling Assn's W. F. Cushing 1, sd for cable 4150 ft; Sparkman 1, fighting cavey hole 830 ft. Associated Prod. & Ref. Co.'s C. I. Brunson 1, sd 2935 ft.

HUDSPETH COUNTY — Boole Oil Assn's Gardner & Moseley 1, fsh tools 1405 ft. Cactus Oil Co.'s Jones 1, sd 615 ft. Hueco Basin Oil Co.'s University 1, sd 2565 ft.

HOWARD COUNTY—Fensland Oil Co.'s C. D. Read 1, hole caving, trying to pull 6⅝-inch cas to ur, td 3340 ft. Maxwell & Johnson's Wm. Capps 1, sd 3265 ft. Big Springs Prod. Co.'s Mable O. Quinn 1, sd 3645 ft. General Oil Co.'s Roberts 1, pul cas to abn.

JONES COUNTY—Anson Oil & Dev. Co.'s C. B. Brown 1, sd 1855 ft. C. H. Oil & Dev. Co.'s J. A. Collum 1, showing oil in lime, co to test 2970 ft. Magnolia Petroleum Co.'s S. Jordan 1, dr 2810 ft.

JEFF DAVIS COUNTY—Magnet Oil Co.'s Tatum 1, sr 6⅝ cas 1115 ft.

LOVING COUNTY—Ramsey Oil Co.'s Russell 1, sd 4485 ft; Russell 2, sd 705 ft.

MARTIN COUNTY—Cox Realization Co.'s George Walcott 1, sd 2070 ft.

MITCHELL COUNTY—Mitchell County Oil Corp.'s W. H. Badgett 1, derrick collapsed gas production receded to about 30,000,000 cubic feet non-inflammable gas and 5,000 bbls salt water, td 1100 ft. C. F. Kelsey et al's W. H. Badgett 1, rigging up. California Co.'s T. C. Richardson 1, dr 1240 ft. Colorado-Texas Pet. Co.'s W. L. Foster 2, sd 2610 ft. Crescent Drilling Co.'s Nat Smith 1, fsh cas and tools 2440 ft. Underwriters Prod. & Ref. Co.'s T. P. Land Co. 2, sd for shot 3130 ft. A. T. Spaulding et al's Zilpha Morrison 1, sd 2555 ft. Flesher Petroleum Co.'s P. C. Coleman 1, sd repair boiler 2510 ft. Maxwell & Johnson's J. L. Jones 1, sd for water 2470 ft; F. H. Stewart 1, sd 3070 ft. Western Petroleum Co.'s Etta Brennand 1, hole full water, probably abn 3815 ft. Henry Riley's W. A. Murphy 1, co bridge at 2175 ft, after shot 240 qts from 2570 to 2740 ft, td 3560 ft. Magnolia Petroleum Co.'s W. L. Foster 1, set cas 2025 ft. Petroleum Operators Assn's E. Morrison 1, rigging. S. A. Sloan et al's Sam Smart 1, rig.

PECOS COUNTY—Bower et al's University 2, sd 1705 ft. A. S. Luse's G. W. Allison 1, sd 205 ft; Hock et al 1, sd 305 ft. Oregon-Texas Drilling Assn's Turney 1, sd 1905 ft. Pecos Valley Oil Co.'s Fuller 1, rig. Polk Prospecting Co.'s Looney 1, sd 1220 ft. W. S. Try's Johnson 1, trying to shut off water 2755 ft. Greer et al's Burnett 1, sd 430 ft. Southern States Lease & Prod. Co.'s J. M. Odem 1, bldg dk.

REAGAN COUNTY—Texon-Land & Oil Co.'s University 1, sd 2510 ft.

REEVES COUNTY—Bell Reeves Oil Co.'s Findley et al 1, sd 1540 ft. Dixieland Oil Co.'s Oates 1, dr 2965 ft. El Paso Saragosa Oil Co.'s George Wirt 1, sd 540 ft. Los Pecos Oil Synd.'s Oates 2, sd 730 ft. Parker-Hancock Synd.'s Johnson 1, sd 1930 ft. Pecos-Angelus Co.'s Pecos Valley 1, sd 1410 ft. Toyah-Bell Oil Co.'s T. P. Land Co. 1, sd 735 ft. Zone Oil Co.'s Kate Tapp 1, sd 735 ft. Willoughby Pet. Co.'s W. D. Cowan 1, sd 625 ft; W. D. Casey 1, sd 210 ft. Pico Petroleum Co.'s Johnson 1, sd 1930 ft. Hawkeye Pecos Oil Synd.'s T. P. Land Co. 1, sd 825 ft. Sunshine Oil Corp.'s Van Horn Bank 1, sd 2555 ft. Texas Drilling & Dev. Co.'s Pecos Valley 1, sd 1105 ft. Chicago Drilling Co.'s H. G. Hersheusen 1, fsh bit 190 ft.

RUNNELS COUNTY—Runnels Prod. Co.'s Russell 2, rigging up. Safety First Oil Co.'s Allen 1, set 3180 ft. Winters Oil & Gas Co.'s Lee Sauls 1, sd 3765 ft.

SCURRY COUNTY—Hermleigh Oil Co.'s J. W. Burris 1, sd 1400 ft. Stanton Oil Co.'s J. V. Riley 1, sd 3505 ft. Geo. W. McLung's J. J. Billingsley 1, repairing machine, td 1010 ft.

SCHLEICHER COUNTY — Paragon Oil Co.'s B. M. Boyd 1, dr 730 ft.

STERLING COUNTY—Sterling Petroleum Co.'s Tom Brannand 1, sd 2990 ft. Co-operative Lease & Dev. Co.'s Douthit 1, sd 1675 ft. Chicago Oil & Gas Co.'s B. C. Durham 1, sd 415 ft. Concho Drilling Assn's McIntyre 1, sd 505 ft.

TAYLOR COUNTY — Abilene Texas Petroleum Co.'s J. C. High 1, sd 2025 ft. Andy Urban et al's Parker 1, sd for cas to shut off water, td 3445 ft. Sanger Oil & Ref. Co.'s Hale 1, sd 1860 ft.

TERRELL COUNTY—Pittsburg-Western Oil Co.'s Downey 2, sd 1260 ft. Southwest Oil & Gas Co.'s Folsom 1, fsh tools 3470 ft.

TOM GREEN COUNTY—Ranger Investment & Dev. Co.'s Harris 1, dr by cas 2855 ft.

VAL VERDE COUNTY—Fensland Oil Co.'s Abb Rose 1, ur cas and co to lower cas, td 1945 ft. Huber Oil Co.'s Whitehead 1, sd for fuel 1050 ft. Reclamation Oil Prod. Co.'s J. B. Moore 1, sd 2630 ft. G. Cook et al's Bedell Moore Estate 1, dr 680 ft.

WARD COUNTY— Arthur Pitts Oil Co.'s Soda Lake 1, sd 2205 ft; River 1, sd 4675 ft; Valley 1, sd 1685 ft. Cook & O'Brien's G. W. O'Brien et al 1, sd 1175 ft. Trans-Pecos Oil Co.'s Longnecker 1, sd 1755 ft.

A SUPER FIELD PUMP

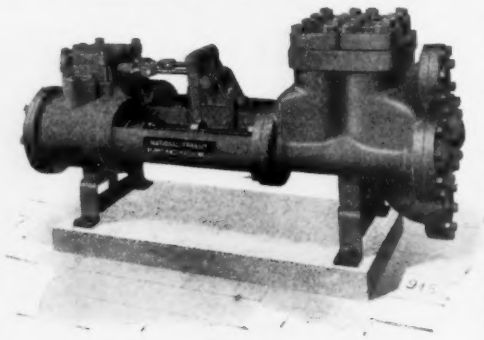

Fig. 945

Our new Bulletin No. 105-A describes these pumps

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Valve Pot Type
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San Antonio Wildcats

ARANSAS COUNTY—Texas Coast Oil Synd.'s Harris 2, dr.

ATASCOSA COUNTY—DeLange Eiser Co.'s Tom 1, dr 2660 ft; 2, sd.

BEXAR COUNTY—Gafney et al's Sodrek 1, sd. Mason et al's No. 1, dr 450 ft. Ray Oil Co.'s Skrycki 1, dr 1300 ft. San Antonio Prod. Co.'s Posek 2, lcn. Transcontinental Oil Co.'s Streltzyk 1, rigging up.

DUVAL COUNTY—Abercrombie et al Benavides 1, sd. Flornoy & Givens Canales 1, dr below 1900 ft. Federal Oil Co.'s Smith-Cockeral 1, dr 3312 ft. Gray Ridge Oil Co.'s Gray 1, sd 3890 ft. Givens Oil Co.'s Hanojosa 2, lcn. Humble Oil & Ref. Co.'s Singer 3, dr 3100 ft. Mar-Tex Oil Co.'s Ridder 2 and 3, sd; 4, sd 1150 ft. National Oil Co.'s Scharlert 4, dr 3130 ft.

JIM HOGG COUNTY—Elm Oil & Gas Co.'s Oblate 2, sd 1500 ft. Forest Miracle Oil Co.'s Holbein 1, sd 1613 ft. Givens Oil Co.'s No. 1, dr below 2000 ft. Holden Oil Co.'s Hinojosa Grant 1, dr below 1100 ft. Las Animas Oil Co.'s Holbein 1, dr 2400 ft. Miami-Balderas Oil Co.'s No. 1, dr. Ohio Fuel & Oil Co.'s No. 1, lcn. Revere Oil Co.'s Davenport 1, dr below 2000 ft. Weber Oil Co.'s Los Animas 2, dr 3216 ft. Woods et al's Holbein 1, dr 810 ft. Zapata Oil Co.'s Thompson 1, dr 1461 ft.

KLEBERG COUNTY—Caprock Oil Assn.'s Nolkemper 1, setting cas. Francis Oil Co.'s Flato 1, cementing 6-inch cas 2768 ft.

LIVE OAK COUNTY—Grubstake Investment Assn.'s Nichols 2, dr in gas sand 1050 ft; Reagan 1, lcn. Lobo Oil Co.'s Reagan 4, dr.

MAVERICK COUNTY—Eagle Pass Oil & Gas Co.'s Nos. 1, fsh 2785 ft; 2, dr 840 ft; 3, reported making 5 bbls daily; 4, dr 850 ft.

MEDINA COUNTY—C. Groves Kemp 1, dr. Ina Oil Co.'s Durst 1, dr. Mayor Wheless Jose de la Roche 1, dr. Chas. Slater et al's Hurse 1, dr. Taft-Tex Oil Co.'s Degant 1, dr. Wooly Hill Oil & Gas Co.'s Harrison 1, dr. Witherspoon Oil Co.'s Bless 1, dr 900 ft.

McMULLEN COUNTY — Circle Y Drilling Co.'s Martin 1, sd. Grubstake Investment Assn.'s Stitz 1, dr out old pipe; 2 lcn; Callahan 2, sd; Jacob 2, setting canvas packer at 1376 ft, to test. Hopkins-East Jacobs 3, dr. San Balt Pet. Co.'s Martin 1, dr. Troy Ballard Oil & Gas Co.'s Burne 2, dr below 300 ft. Pioneer Consolidated Pet. Co.'s Lowe 2, cas set. Charles A. Snapp Co.'s Artex Shiner 1, no report. San Marcos Oil Co.'s Jacob 1, dr 1430 ft.

SAN PATRICIO COUNTY—Aransas Pass Live Oak Ridge Oil Co.'s Sigmund 3, cemented and preparing to dr in. Rockport Oil & Gas Co.'s No. 2, dr 250 ft. San Patricia County Oil Dev. Co.'s Hattie 2, sd. White Point Prod. Co.'s Rachal 1, set 8-in cas; 2, dk. White Point Dev. Co.'s Rachal 1, lcn.

VAL VERDE COUNTY—R. Cook et al's No. 1, waiting on cas. Del Rio Oil & Gas Co.'s Eagle Pass Hill 1, dr. Wm. Devine et al's Whitehead 1, lcn. Fensland Oil Co.'s Abb Rose 4, dr. Heaton & Ady's Sellers 1, lcn. Havelien Oil Co.'s Weathersbee 1, reported gas showing 2700 ft; 2, lcn. Humble Oil & Ref. Co.'s McDonald 1, lcn. C. Miller et al's No. 1, dr 250 ft. Pure Oil Co.'s Stevenson-Murrah 1, lcn. Reclamation Oil Prod. Synd.'s Moore-Whitehead 1, to resume dr, ft; White 2, 29-18-5 dk, tmbrs. Wadley et al's Lawhon 1, 8-16-8, dk.

CADDO PARISH—Louisiana-Texas Community Oil Co.'s Hill 1, 33-23-16, wosr 2957 ft.

BOSSIER PARISH—Andores Oil Co.'s Bolinger 1, 22-23-13, set 12½-inch 310 ft. Atlantic Prod. Co.'s Johnson 1, 21-22-13, fsh 3660 ft. Clark et al's Connell 1, 35-18-12, lcn. Collins et al's Gray 1, 28-19-13, set 6-in 2541 ft. Corbett et al's Atkinson 1, 4-18-12, set 6-inch 1160 ft. Elliott et al's McLaughlin 1, 16-18-11, sd 500 ft. Hoenke et al's Freeman 1, 15-18-12, to set 4½-inch 3200 ft. Invincible Oil Co.'s DeMoss 1, 20-22-12, dr 2875 ft. Morefield & Tanner's Bolinger 1, 9-22-13, dr 300 ft; Harris 1, 21-22-11, rig. Olmstead et al's Scanlan 1, 10-20-13, dr 135 ft. Perkins et al's Gayle 1, 33-20-13, rig. Skannal et al's Fee 1, 22-17-12, set 8-inch 839 ft. Standard Oil Co.'s Rawls 1, 15-22-11, r 2320 ft.

CLAIRBORNE PARISH—Adams et al's O'Bannon 1, 25-22-5, r 2300 ft. El Dorado-Chief Oil & Gas Co.'s Kinder 1, 35-22-7, dr 1610 ft. Es-To Oil Co.'s Tuggles 1, 31-21-6, sd 2135 ft. Fullenwilder et al's Fullenwilder 1, 8-23-6, set 10-inch 850 ft. Harrell et al's Brinkley 1, 15-23-4, sd 1650 ft. Haynesville Star Oil Co.'s Crump 1, 9-23-7, sd 3030 ft. Meyer et al's Boatner 1, 20-19-5, sd 1845 ft. Mitchell et al's Cooper 1, 19-23-4, sd 600 ft. Steel et al's Wise 1, 15-23-6, sd 3160 ft. Steuben O. & G. Co.'s Taylor 1, 16-22-6, dk. W.

Louisiana Wildcats

COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
De Soto Parish—		
Lee et al's Joiner 1, 28-11-12.	‡	3014

DRILLING REPORT

BIENILLE PARISH—Davis Synd.'s Theus 1, 6-17-5, sd 2785 ft. Langston et al's Davis 1, 23-17-5, sd 1485 ft. Smitherman et al's Pentecost 1, 29-18-5, dr 2622

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H. C. Oil Co.'s Dillon 1, 11-19-7, dr 1250 ft.

EVANGELINE PARISH—Pine Prairie O. & G. Co.'s LeDanois 2, 34-3-1, sd 1230 ft.

DE SOTO PARISH—Fortuna Oil Co.'s Giauque 9, 32-12-11, dry 2717 ft, will deepen. Pilgrim Oil Co.'s Ramsey 3, 34-13-16, dr 4300 ft. Simms Oil Co.'s Pelican 1, 8-11-11, dr 4010 ft. Snell et al's Connell 1, 8-12-15, testing 2991 ft.

LINCOLN PARISH—Greer & Gault's Simmons 1, 25-18-1, dk. Roxana Pet. Co.'s Thomas 2, 24-18-4, testing cas 2211 ft.

NATCHITOCHES PARISH—Parks et al's Morse 1, 23-5-6, dk; Crowell-Spencer 1, 29-5-6, dk.

RAPIDES PARISH—Bell et al's Barnett 1, 15-5-1w, sd 1348 ft.

SABINE PARISH—Brown et al's Bowman-Hicks 1, 7-7-12, r 2200 ft; Bowman-Hicks 2, 15-7-12, sd 410 ft. Gladys-Belle Oil Co.'s Belmont-Raines 1, 33-9-11, dr 2615 ft. Middlesex Oil Co.'s Smith 1, 17-7-10, dr 355 ft. Pathfinder Oil Synd.'s Long-Bell 1, 8-8-13, set 8-inch 1600 ft. Zwolle Oil Co.'s Bowman-Hicks 2, 15-7-12, set 8-inch 380 ft.

UNION PARISH—Gardner et al's Brown 1, 6-23-3w, dr 2565 ft. Price et al's Rogers 1, 23-23-2, fsh 2180 ft. Texas Co.'s Grayland 2, 20-23-2, sd 2860 ft; Taylor 1, 3-22-2, dr 2880 ft. Transcontinental Oil Co.'s Carroll 1, 12-22-2, set 6-inch 3321 ft.

WEBSTER PARISH—Dan Boone Synd.'s Wheeler 1, 35-23-11, rig. Burkhalter et al's Burkhalter 1, 29-19-8, dry 2250 ft. Fortuna Oil Co.'s Becker 1, 35-23-11, lcn. Kenney Bros.' Hudson 2, 17-19-10, lcn. LeGuerre Synd.'s Miller 1, 33-19-10 abn 1155 ft. Lucky Four Oil Co.'s Baldwin 1, 28-18-10, sd 1600 ft. Midway Oil Co.'s Heflin 1, 24-17-9, lcn. Raymond et al's Houston 1, 33-23-10, dr 2035 ft. Rogers et al's Gardner 1, 6-22-10, dk tmbrs. Shirley Tooker Synd.'s Andres 1, 6-18-10, set 8-inch 830 ft. Tarver et al's Campbell 1, 6-22-10 dk. Triangle Drlg Co.'s Allen 1, 30-22-10, set 8-inch 1675 ft. J. K. Wadley's Pearce 1, 14-17-9, dr 2615 ft. Webb et al's Merritt 1, 13-21-10, sd 2558 ft.

Arkansas Wildcats

BRADLEY COUNTY—Southern O. & L. Co.'s Blankenship 1, 20-12-9, sd 1890 ft; Bradley 1, 25-13-10, dr 3110 ft.

CALHOUN COUNTY—Calhoun O. & D. Co.'s Hernsberger 1, 16-11-13, sd 2530 ft. Hermann Oil Co.'s Freeman-Smith 3, 31-14-15, to set 6-in 2255 ft.

CHICOT COUNTY — Duncalf Oil Co.'s Fee 1, 12-18-2, sd 1165 ft. Hoffman Oil Co.'s Loyle 1, 28-17-2, dr 1800 ft.

CLARK COUNTY—Arkansas Synd.'s Barringer 1, 26-10-20, sd 2845 ft. Casey et al's Sloan 1, 18-8-19, sd 845 ft. United Pet. Co.'s Langford 1, 28-5-23, sd 1590 ft.

COLUMBIA COUNTY—Bowdy et al's Fullenwilder 1, 12-17-22, rig. Brown et al's Robinson 1, 23-18-23, dr 1035 ft. Cox et al's Davis 1, 14-18-21, sd 2105 ft. Dexter et al's Davis 1, 12-18-21, sd 2675 ft. Hercules Oil Co.'s Wise 1, 29-18-21, sd 2565 ft. Haskell et al's Brown 1, 10-17-20, sd 3000 ft. Hosey & McDonald's Haire 1, 30-10-18, dr 910 ft. Russell et al's Flint 1, 3-20-20, dk; Rushton 1, 7-19-19, sd 2400 ft. Sharp & Strough's Brown 1, 28-18-20, set 8 inch 1080 ft. T. S. D. Co.'s Magale 1, 11-17-21, sd 3020 ft.

CRITTENDEN COUNTY—Crittenden County O. & G. Co.'s Stanley 1, 33-8-7, sd 1631 ft.

DREW COUNTY—Dunn-Marr Pet. Co.'s Hardy 1, 7-13-7, sd 1887 ft. Garrison et al's Smith 1, 26-13-5, to test 3083 ft. Holland et al's Doern 1, 9-12-4, sd 1190 ft. Stainke et al's Fee 1, 23-13-7, sd 2031 ft.

GRANT COUNTY—Grant County Oil Co.'s Stupka 1, 15-5-12, sd 1210 ft. Jeter & McGee's Cargile 1, 25-6-12, sd 700 ft. Par Oil Co.'s Breech 1, 31-4-11, dk. Winters et al's Lamb 2, 25-6-15, sd 1875 ft.

HEMPSTEAD COUNTY—Georgia Oil Co.'s Duckett 1, 28-10-24, sd 865 ft. Hawthorne et al's Allen 1, 33-11-25, sd 275 ft. Sechrist et al's Duckett 1, 23-33-33, fsh 2245 ft. Tycap Oil Co.'s Mason 1, 7-11-24, set 5 3/16-in 2345 ft.

LA FAYETTE COUNTY—La Fayette O. & G. Co.s Creek 1, 10-15-20, dk. Kensaw Pet. Co.'s Fee 1, 31-19-24, dr 2865 ft.

LINCOLN COUNTY—Lincoln Oil Co.'s Touchstone 1, 29-9-7, lcn.

LITTLE RIVER COUNTY—Sullivan Oil Co.'s Ludlow 2, 32-11-32, dr 1500 ft.

MILLER COUNTY—Dodwell et al's Miller 1, 29-18-27, sd 900 ft. Farmers O. & G. Co.'s Ramsey 1, 24-17-23, dk. Magnolia Pet. Co.'s Westmoreland 1, 9-19-7, set 8 inches 2380 ft. Miller Land Co.'s Miller 1, 18-18-27, dk. Primero Oil Co.'s Bedgood 1, 2-16-18, sd 2200 feet.

NEVADA COUNTY—Gleason et al's Williams 1, 12-14-20, sd 1005 ft. Goetz et al's Munn 1, 4-14-22, sd 400 ft. Gulf Ref. Co.'s Graves 1, 34-14-20, dr 1250 ft. Kan-Ark Oil Co.'s Brimberry 1, 21-13-21, dr 2280 ft. Murphy & Falke's Williams 1, 12-14-20, dr 1025 ft. Nelson et al's Lester & Haltom 1, 4-15-20, dry 2426 ft. Tri-County Oil Co.'s Drake 1, 3-15-20, sd 2325 ft. Watkins et al's Womack 1, 11-14-21, sd 1192 ft. White et al's Phillips 1, 3-14-20, sd 180 ft.

OUACHITA COUNTY—Lumbermens Pet. Co.'s Crichter 1, 27-15-18, sd 2300 ft. Southern Oil Co.'s Patterson 1, 22-12-9, fsh 2895 ft. Springer Oil Synd.'s Hecker 2, 2-14-17, dr 1500 ft. Universal Pet. Co. Benton 1, 24-12-19, fsh 3530 ft. Walker et al's Hickman 1, 15-14-17, sd 1915 ft. White et al's O'Donnell 1, 31-13-16, lcn.

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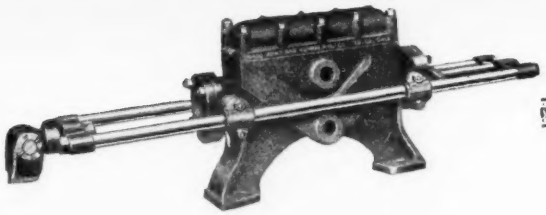

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TAKING CORES IN ROTARY DRILLING OPERATIONS

(Continued from Page 13)

¾-inch in diameter in the center of the collar. The ground seat is at the top of the opening through the collar. About three inces above this ground seat, there is a ⅝-inch weep hole opening to the outside of the collar. Coring proceeds as described above, when using this tool, until the driller is ready to pull out. At this point the driller drops a steel ball two inches in diameter into the drill stem, which becomes lodged on the ground seat and acts to keep the drill mud from washing through the core barrel and washing out the core as the stem is being removed from the hole.

Hundreds of operators are using the basket type core barrel in Texas and Louisiana. It has the advantage of being relatively inexpensive and easy to make. The following objectionable features have been pointed out in connection with its use:

Hole not reamed to gauge.—After taking a core with this device it is necessary to ream the hole to gauge. This takes almost double drilling time and hence adds to the cost of drilling. It has the advantage of allowing the driller to "rat hole" ahead and if the sand cored carries values he may be able to land pipe on top of the sand. This advantage is somewhat problematical, however, as it is extremely doubtful that an operator could land pipe as close to a sand as would be necessary with a coring device taking such short cores.

Chemical Constituents of Sand Leached Out.—Due to the fact that the drill mud, which ordinarily contains fresh water, comes in intimate contact with the core, any saline constituents may be leached out before the core is removed from the hole. This is a very serious objection as the operators always want to know whether or not the sand cored contains salt water.

Core Apt to Be Injured by Heat.—Several writers have recently pointed out the fact that cores are sometimes badly burned or fused from the heat generated while effecting closure. In many cases this heat is sufficient to weld the cutting teeth together and shale cores have been melted into a slag resembling volcanic rock. Of course this completely destroys all of the original characteristics of the core and it is decidedly not to be desired. Cases of burnt cores are relatively rare in proportion to the number of cores taken.

Cores Lost Due to Failure of Core Barrel to Close.—This condition arises in the coring of soft sands where complete closure is not effected. Alto, in the taking of rock cores, it sometimes happens that they do not catch the core. Accidents of this kind are expensive due to time lost and failure to get accurate sample.

Auger-Type Core Barrel

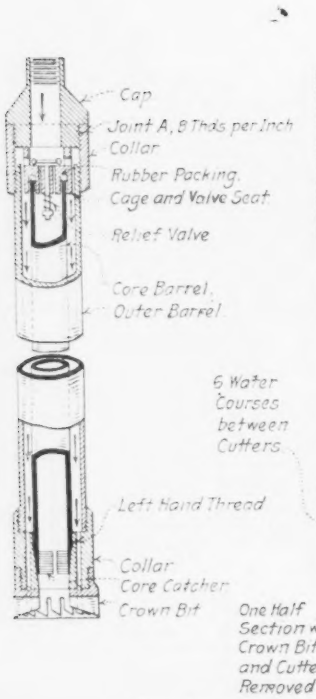
The auger-type barrel, non-reaming, shown in Figs. 1 and 2, is not really a coring device, as the formation is considerably cut up in getting it into the barrel. Probably it would be more correct to call it a sampling device, but because it is used for the same purpose as the ordinary core barrel it is included in this discussion. This tool has a cutting action somewhat similar to that of an ordinary auger; it is made by cutting and bending a lip over the bottom of a piece of pipe.

These barrels usually are run without pump circulation, and in that case no back pressure valve is used. If the pump circulation is used while coring, it is necessary to use the back-pressure valve, as shown in Fig. 2. This type of barrel does not have to be closed when pulled out; the lip is relied on to hold the sample in the barrel; samples of very loose sands are sometimes lost. Because the barrel is not closed, there is no heat generated; hence this method does possess some advantage over the basket-type barrel. Except for this one point, the auger-type barrel has all of the objectionable features of the basket-type barrel.

The Reed and Hepler coring tool (sometimes referred to as the R & H tool) is a reaming type of core barrel that has only recently appeared in the Gulf Coast fields. It is shown in detail in Fig. 3. This tool seems to posses more of the desirable features of a coring device than any other which has come to the attention of the author. It possesses the following advantages:

Advantages of Reed and Hepler Coring Tool

Hole Carried to Full Gage During Coring Operations.—This is accomplished by



FIGS. 4 AND 5.—OILFIELDS-HOLLAND CORE BIT.

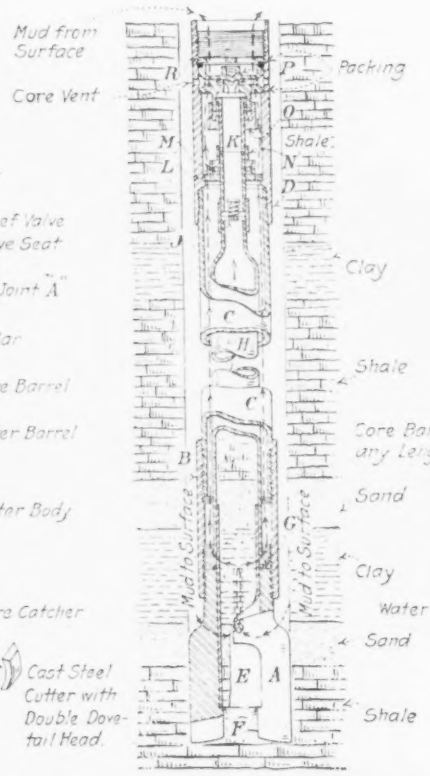


FIG. 6.—KNAPP COMBINATION CORE BARREL AND FISHTAIL BIT.

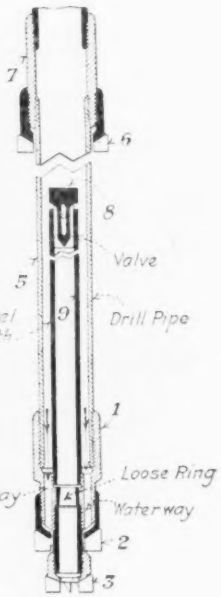


FIG. 7.—ACME CORING TOOL.

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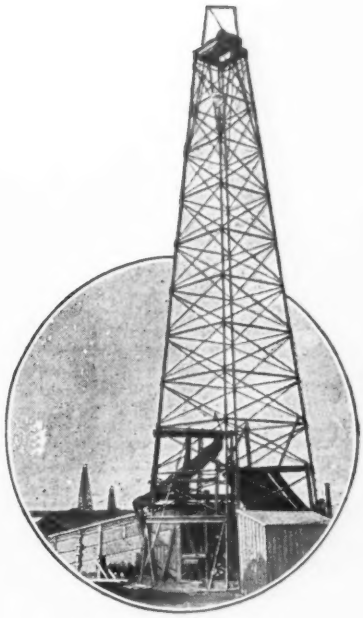

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the use of inserted cutting teeth (a) as shown in Fig. 3. Mud is circulated constantly during the operation of this tool and the teeth cut an annular portion of the hole, the cuttings from which are returned to the surface in the drill mud.

Barrel Kept Clean Until Coring Starts.—this is accomplished by the small plug but (b) which is screwed in place in the bottom of the barrel from the inside of the barrel on assembly. When the core tool is placed on bottom the blade of the plug bit is engaged in the formation. When rotation begins it remains stationary and the core tool unscrews down over it. As the coring proceeds the released plug bit and guide (c) ride up into the core barrel on top of the core.

Core Not Leached of Saline Content While in the Barrel.—On account of the barrel being kept closed and the method of cutting core, it is claimed that the sand core when removed from this type of coring device will come very close to having its original saline content.

Length of Core Taken.—This core tool is usually made up in 10-foot lengths in order to make it a convenient tool to handle. This will accommodate a core seven to eight feet long, but the tool can be made in any multiple of 10-foot lengths, and there is no reason why 30-foot cores could not be taken in certain types of formations. This is a very important advantage over the basket-type core barrel.

Device for Retaining Core.—This tool has four blades (d) suspended on pins. These are so suspended within the barrel that they tend to bear against the core. Any downward movement of the core causes these blades to move inward. The closure effected by these blades depends on the hardness of the core. When coring in soft sands the blades come together in an "orange-peel" style and effect almost perfect closure.

No Pump Pressure on Core Moving up into Barrel.—In coring tools using back pressure valves any core moving up into the barrel has to overcome the pressure of the column of mud moving downward. This amounts to quite a good deal in some cases and exceedingly soft material is apt to sluff off rather than move into the barrel. In the Reed and Hepler tool, the ascending core forces the fluid which is in the barrel upward and outside the drill stem at (e). At the point (e) the drill mud is ascending and hence there is no downward pressure against the core.

Circulating Drill Mud Does Not Contaminate Core.—The drill mud in this tool comes out of the holes in front of the cutting teeth. It is prevented from getting at the material being cored by the protecting sleeve (f).

Perfect cores are taken with this tool in sands as fine as quicksand. The writer has seen cores seven and eight feet long taken at a depth of 3200 feet. In taking a series of cores at great depth, there is usually great wastage in soft materials. This causes gaps to occur in the sequence of the cores. The R. & H. core tool lost only five feet of formation in coring 160 feet of loose sands and shales and hole was made faster than when drilling in the same character of formation with a fishtail bit.

Oilfields-Holland Core Bit

The Oilfields-Holland core bit shown in Figs 4 and 5 has been used to some extent in California. The advantages of this tool are given by R. M. Barnes in a report to the California State Mining Bureau as follows:

The "core catcher" releases itself with only a slight downward movement if frozen.

The inner barrel will not turn, which is an improvement over the "Holland" bit for use with the stratameter.

The head facilitates removal of the core, as when the cap is removed at point A, the inner core barrel projects above the outer core barrel. In the most recent design, the top of the inner core barrel is made flush with the top of the outer barrel.

The construction of the cutting bit in the "Holland" type was retained because the core does not wash away as easily as in the "Oilfields" type. The water courses are outside of the cutting teeth instead of inside.

Improvements have been made in the combined "Oilfields-Holland" bit which call for much heavier construction than that used in previous bits because of the strenuous requirements imposed by deep rotary holes and tough formations. Of course the core barrel may be made of any length, but practice has shown that a core longer than two feet is not essential and usually can not be secured.

It might be pointed out that the R. & H. coring tool possesses the following advantages over the Oilfields-Holland tool:

The Oilfields-Holland tool goes to the bottom of the hole open and the core barrel may become partly filled with debris on the way down.

In the Oilfields-Holland barrel, the core must move upward against pump pressure.

The core catcher of the R. & H. tool is much more positive in its action and would be more certain of retaining a core of soft material.

Knapp Core Barrel

This tool, invented by I. N. Knapp, is described by R. E. Collom in a report to the California State Mining Bureau as follows:

This tool has been operated successfully in ordinary rotary drilling, taking cores of both soft and hard formations. As much as 16 to 18 feet of hole has been made in one run, giving 12 to 14 feet of core, in pieces, with a maximum length of 18 inches. Fig. 6 is a sectional view of the apparatus complete. A is an ordinary 11-inch fishtail bit with 6-inch shank bored out to 4-inch pipe. B is an ordinary 6-inch drill coupling. C is a 6-inch drill pipe. D is a special drill coupling that supports and swivels the core barrel and is provided with vent holes to equalize the pressure on the core. E is a piece of 4-inch pipe forming the lower end of the core barrel. It is held from dropping through the bit by the offset F, in the bit A; and from pushing up, by the ring G. H is the main core barrel made of a joint of 4½-inch pipe, swaged to 2½ inches at the top and on this is attached a 2½-inch coupling. J is a back pressure valve. K is the swivel pipe. L is a perforated annular ring that supports the core barrel. M is a ball-bearing supported on L, carrying the coupling attached to the swivel pipe, thus supporting the core barrel. N is a coupling supporting swivel pipe and core barrel. O is a packing box. P is the head through which the core barrel is vented to the ascending fluid. R is a perforated follower to hold P in place.

One disadvantage is that the barrel is likely to become partly filled with debris before coring starts; also, the fluid nozzle is about a foot too far away from the cutting edge of the fishtail bit to obtain the best drilling effect.

Future of Reaming-Type Coring Tools

The Acme bit, which is made in Shreveport, Louisiana, is shown in Fig. 7. The writer is not familiar with its use but simply shows it as another type of coring tool.

Coring tools of the reaming type probably will come into much more general use in the Gulf Coastal fields within the next few years. Holes can be made just as fast with them as with fishtail bit. It is not at all impossible that soon these tools will displace fishtail bits altogether in territory where accurate samples of any kind are needed. For coring in soft formations, their superiority over other devices cannot be questioned and when tools of this kind are used with rotary drilling equipment the formation samples are superior to those obtained in cable-tool drilling.

Open Afternoon Session Of Mechanical Engineers

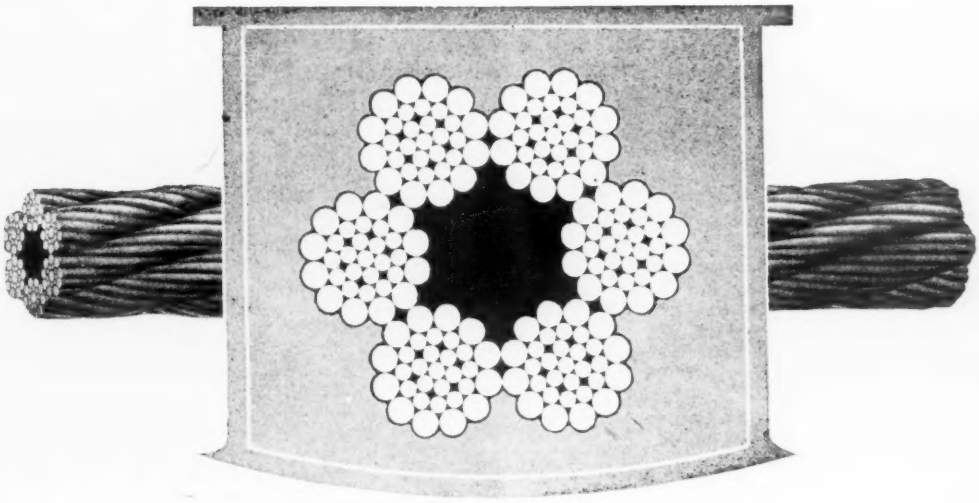
Tulsa, Okla., Oct. 23.—Changes in the program of the Mid-Continent section of the American Society of Mechanical Engineers here October 28 provide for an opening meeting in the afternoon.

At that time the public will be invited to hear the paper by Benjamin Greenfield of the Doherty Research Company of Bartlesville, on "The Combustion of Gas in Oil Field Boilers." Another part of the program of the afternoon will be the showing of the motion picture, "The Story of Petroleum." This has been made by the Sinclair Oil interests, under supervision of the Bureau of Mines.

This part of the program will be in the auditorium of the municipal building in Tulsa. Other parts of the program for members of the organization will be in rooms of the University Club in the New Wright building and at the Tulsa Country Club.

Texas City, Texas, Oct. 24.—The Terminal Oil & Refining Company, Texas City, located adjacent to the Swiftsure Petroleum Company, Houston, Texas, is doubling its storage capacity and when completed will be over 10,000 barrels. The new storage is being erected by the Petroleum Iron Works, Sharon, Pa.

Wichita, Kansas, Oct. 23.—The Bridgeport Machine Company, with headquarters here, is adding a field store to its distributing service. The branch is to be at Depew, Oklahoma. A building is being erected by the company. It will be completed about November 1.



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Oil Is Produced on Island of Dago off Coast of Esthonia

Considerable interest has been aroused by the recent news of the drilling of oil wells in Esthonia, or, more accurately, on the island Dago (Dagden). While the present operations are as yet largely of an experimental character, and although it is not to be expected that very rich resources could be discovered on this island, the fact that Esthonia possesses oil cannot be any longer disputed, and in so far the matter is one of considerable importance. Provided that the local and technical circumstances are favorable, the development of the Esthonian oil resources assumes very interesting prospects because of the general lack of fuel in Esthonia and in the Baltic States. These countries have been so far obliged to draw on the Russian oil resources, and lately, when these became unobtainable, on the Polish and even Mexican oil supplies. The possibility of developing its own oil must under these circumstances necessarily become a most interesting proposition, and this explains the great eagerness with which oil-prospecting has been taken up in Esthonia.

Before approaching the technical side of the question it would be as well to examine the records and to review what has been done in the past in Esthonia with regard to the country's oil resources. First of all it should be realized that although the practical development of the oil resources has been taken in hand only recently, the discovery of oil in Esthonia dates back to as early as 1904, when oil was found, at the depth of only 37 feet, on the estate "Waimel" (island Dago), in a freshly excavated water well. This oil was sent to Baku for testing purposes, and the experts there determined that the oil was "white naphtha," i.e., the product of combustion of ordinary crude naphtha. On receipt of this encouraging bit of news, the proprietor of the estate "Waimel," Count Pahlen, proceeded to deepen the well, but it was soon found that the ordinary methods of excavation

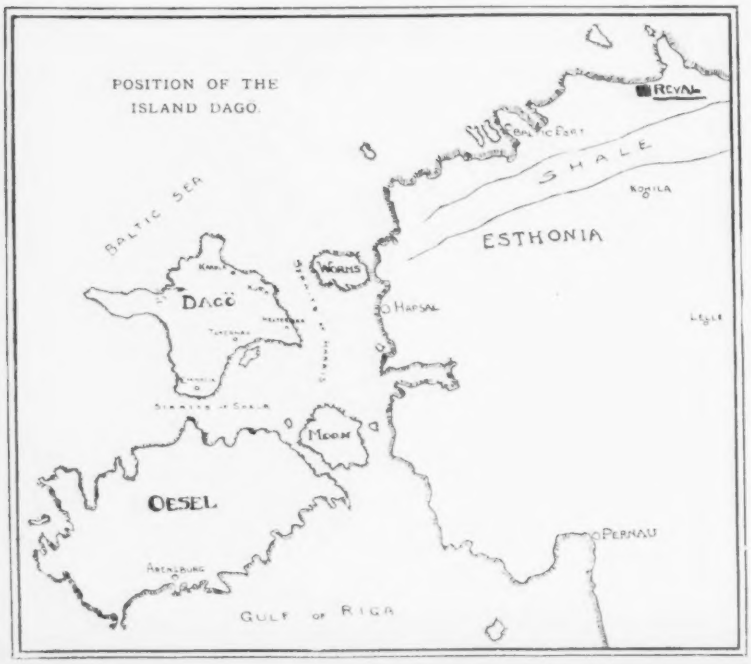
were not sufficient to throw more light on the matter, particularly because water was soon reached. In order to continue the investigations on a larger scale a company was formed, with a small capital of £800, and drilling operations were begun. However, when at a depth of 334 feet no satisfactory results were obtained and the war finally intervened, the operations were suspended and not resumed until now.

The present operations were initiated by a Russian expert from Baku, who has obtained the necessary concessions from the Esthonian Government. No definite news is so far obtainable with regard to the success of his enterprise, but the following interesting results of his preliminary investigations are to hand. The famous water well at "Waimel" issues strong petrol vapors, and other water wells in the neighboring villages show similar characteristics. Small cavities have been discovered in the ground in the vicinity of the village Laida, from which pure naphtha is emanating in drops. Finally, asphalt has been found in various parts of the island. Judging from these indications, there certainly should be oil on the island Dago.

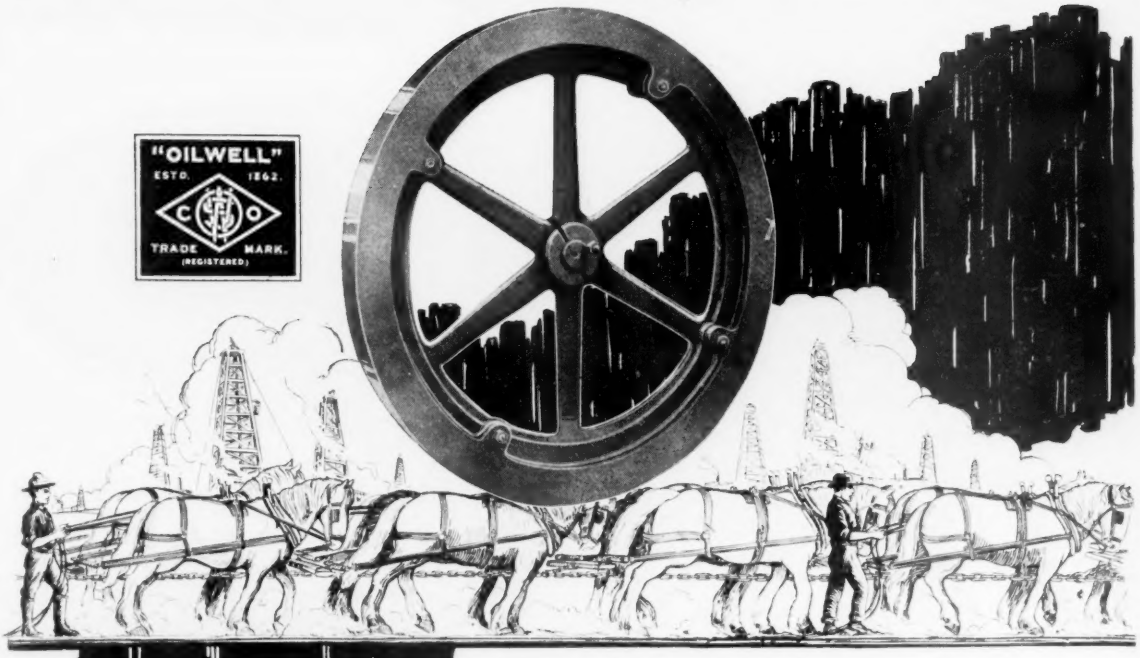
Apart from these actual signs, there are certain theoretical reasons why there should be oil in Esthonia. It has been contended by various well known authorities on the matter that oil shale is nothing but a combination of sandstone and naphtha. This theory of the origin of shale has been hotly contested by other experts, who maintained that oil shale is a product of animal sediment in sandstone, and this latter theory is generally supported by the structure of the oil shale, which contains such a considerable amount of fossils. It seems now, however, that the first theory is the correct one, particularly so if one considers the geographical position of the island Dago in relation to that of the shale-bearing districts of Northern Esthonia. As is to be seen from the appended map, the island Dago is situated only a few miles from the Esthonian mainland, and forms in a way a continuation of the shale region there. From a purely theoretical point of view the discovery of oil on Dago is, therefore, a most interesting development, which may have important consequences also in geological respects.

As far as the practical side of the oil developments on Dago is concerned, it may be stated that so far there have been three small companies founded, which have set out to drill four wells. The necessary machinery has been ordered from abroad, and it is expected that oil may be struck at 120 feet. It is certainly far too early to say anything definite as to the prospects of the venture, but it cannot be denied that it is worth while to look out for further developments.

The world's petroleum market is, needless to say, not going to worry over this comparatively small development on the oil market, but from a purely Esthonian point of view, the matter is undeniably one of great importance. Esthonia has no fuel supply of her own, and the shale mines and peat bogs may be all very well for certain purposes, still they are quite insufficient to cover the country's requirements of fuel. A fresh fuel supply could be, therefore, only welcomed and may even prove of considerable commercial value to the country, provided that the experiments which are now being carried out produce satisfactory results.



New York, N. Y., Oct. 23.—The Cities Service Company announces earnings for the 12 months ended September 30, 1922 of $14,417,560 as against $14,131,156 for the 12 month period ended August 31.



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SOMETHING IS FUNDAMENTALLY WRONG

(Continued from Page 14)

the last two years I have heard described as a consumer's paradise; but they do not know it. The consumers are not aware that the principal petroleum products have been selling far below their fair price or intrinsic worth—measured by their service value or by looking into the future a few years and considering the enormously growing demand and the limited ultimate supply. They are unaware, and if they know, would be unconcerned that these products have been selling much of the time below the cost of production to the majority of the small refiners of the country, refiners, who though small, are necessary to supply the demand, and who in the aggregate, probably run about half of the oil produced in the United States.

Refiners Do Not Know

"They are unaware and would be indifferent if they knew that the crude oil from which their gasoline comes is being produced and sold below cost, and that the men who produce it are many of them facing disaster unless there be an early improvement in the situation. Having grown accustomed to filling their gasoline tanks at a certain price, any material advance in that price brings forth howls, from all parts of the country, which are distinctly heard in Washington, D. C., without the aid of any radio; whereupon two or three governmental investigations are initiated by committees of congress, the federal trade commission, or perhaps some other governmental agency, and a goodly number of our legislators sit down to draft various and sundry bills, providing for federal intervention in the industry, ranging from governmental control to outright government ownership. Thus the violent price fluctuations resulting from the rising and falling waves of crude production are irritating to the country at large which does not know that it has been enjoying low prices when they have been at their maximum."

"It cannot be done if each operator is inspired only with a desire to secure the largest share of oil from any given pool; it cannot even be done if each operator insists that he must have an absolutely even break with his neighbors. Civilization exists only through the sacrifice by each individual of some of his personal liberty, and if the oil industry is to be stabilized there must be a spirit of compromise and even sacrifice of present selfish interests for the sake of the common welfare. Of course any co-operative movement looking to a curtailment of development or production must be reasonably general in any one pool or district if not throughout an entire field such as the Mid-Continent.

The Immediate Need

"However, all things must have a beginning somewhere, and a shut down accomplished in one district would help in bringing similar action throughout all other districts. If necessary to save the industry from demoralization which will result from continued over-production, a duty and moral obligation rests on all to put aside self interest, in the emergency, for the sake of the general good of the great mass of the producers.

"You will say this is altruism. If so, the introduction of a little of it into business would help and not hinder, but I also declare that from a purely selfish point of view, if it would thus be possible to bring about a shut down and to restore the industry to equilibrium, it would be better to lose a little $1.25 oil to one's neighbor in order that the remainder, thus stored in the ground, might be sold at prices commensurate with its intrinsic value."

"Every year the tendency to government control of business and industry grows stronger. The railroads have arrived, and the coal industry is apparently due to arrive shortly, and there are signs that the oil industry is drifting in that direction. I need not say to you that it would be a calamity; but I believe that the men engaged in the industry must control and stabilize it, or there will sooner or later be legislation in an effort to accomplish that result. If this calamity is to be avoided the existing mad competition must give way to a reasonable and beneficent co-operation which will be sufficient to stabilize and keep the industry on an even keel in times of stress.

"Doubtless the lawyers present are thinking about anti-trust laws and will declare that such co-operation as I have indicated would put us all behind the bars. I am not a lawyer, but I submit that if that is true, the laws are wrong and should be amended. If men engaged in the oil business are prohibited from concerted actions to save themselves from ruin, and, at the same time to conserve one of the world's most valuable commodities, there is something wrong.

Consider the Farmer

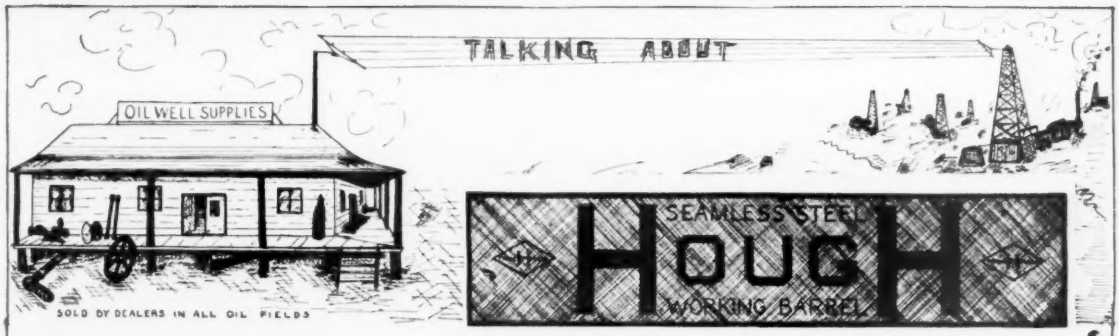
"I recently read an article entitled, 'Producers Co-Operation and the Sherman Law,' which began with this paragraph, 'Farmers are able to borrow money from the United States treasury to do that for which manufacturers and others are prosecuted. By the same token, funds from the United States treasury are applied through the Department of Agriculture, with equal facility to the propagation of food plants and the extermination of weeds.' The author goes on to explain why Farmers' Co-operative Marketing organizations should be classed as food plants and trade associations as weeds.

"The point of interest to us is that such a distinction is seemingly made in Washington. When the Cotton Growers Association met not so long ago and pledged its members to limit the acreage to be planted in order to advance the price, I do not recall any prosecution or talk of prosecution. The Brick Layers Union is not prosecuted for pledging its members to limit the brick laid in a day to a number, if I recall correctly, less than one-third of what a good man could and did lay years ago.

Oil Industry Masked

"Why is co-operation permitted, encouraged or even legalized in these cases and prohibited in others? In the final analysis the only answer, which a legislator would not resent, seems to be that as individuals the exempt classes suffer from exceptional disadvantages and that co-operation is necessary to their adequate protection in the operation of the economic machinery of the country. I believe that the individuals of no class are quite so

(Continued on Page 93)



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Distillates	Wax-Oil Stock	Wire Rope Lubricants	Petroleum Coke
Gas Oils	Oil Soap	Waxes	Metal Polishes
Spindle Oils	Miners' Oil	Asphalts	Roofing Paper
Motor Oils	Black Oil	Road Oils	Roofing
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RESTORING PRESSURE TO NEW YORK OIL SANDS

(Continued from page 14)

tion of petroleum in New York are available only from 1891 on, as in the earlier years the output for the most part was combined with that of Pennsylvania. Certain estimates of the early production, some of which have been published are here given:

"Published figures of production for the whole Bradford field of New York and Pennsylvania (not including any Allegany county, N. Y. production) from 1878, at which time there were about 250 wells in the State, to 1885 inclusive, show 120,000,000 barrels. Allowing five per cent. as New York's share of the production, gives a yield of 6,000,000 barrels for this period. The Allegany county production, from the opening of the field in 1880 to 1886 inclusive has been published at 18,205,000 barrels. The production from all the New York fields for the period of 1886 to 1890 inclusive, with the exception of the figures for 1888 and 1890 which were inserted by the writer, are from estimates published in the "Mineral Resources of the United States." This estimated production is as follows:

Year	Barrels
1886	2,151,486
1887	2,075,000
1888	1,985,983
1889	1,896,966
1890	1,740,998
Total	9,850,433

"The table of production after 1890 is here inserted to show the rate of decline of the fields and in order that it may be studied in conjunction with the above figures:

Year	Barrels
1891	1,585,030
1892	1,273,343
1893	1,031,391
1894	942,431
1895	912,948
1896	1,205,223
1897	1,279,155
1898	1,215,250
1899	1,320,909
1900	1,300,925
1901	1,206,618
1902	1,119,730
1903	1,162,978
1904	1,036,179
1905	949,511
1906	1,043,088
1907	1,052,324
1908	1,160,128
1909	1,160,402
1910	1,073,650
1911	955,314
1912	782,661
1913	916,873
1914	933,511
1915	928,540
1916	874,087
1917	879,685
1918	808,843
1919	851,000
1920	906,000
1921	980,000
Total	32,837,724

Summary of Production.

N. Y. Bradford field 1878-1885	6,000,000
Allegany N. Y. field 1880-1885	18,205,000
All New York fields 1886-1890	9,850,433
All New York fields 1891-1921	32,837,724
Total	66,893,157

Another Party of Oil Field Men to Roumania

Tulsa, Okla., Oct. 23.—The Roumanian oil fields continue to hold a lure for Mid-Continent cable tool drillers. Another party of them will sail from New York October 25 for an old district in the state of Prahova, at the foot of the Carpathian mountains. They have signed contracts with the Romano-Americana Oil Company, subsidiary for the Standard Oil Company of New Jersey.

Those going are Patrick R. Googe, William M. Arbogast, Earl L. Howland and Harry O. Tucker. Some of the men are taking their families.

Headquarters of the Romano-Americana Company are in the city of Ploesti, capital of the state. Camps there are complete, having schools, taught in English, commissaries and other requirements necessary to the comfort of the men and their families.

On Increase Now.

"In the above table it is of interest to note that the year 1887 was the last one with a production of over two million barrels, and that after a period of 32 years the production had declined to a production of one million barrels in 1910. The 1921 production was larger than the amount produced ten years ago. The production of about a million barrels of oil per year over such a long period, clearly indicates a policy of conservation and economy on part of the producers which is highly commendable.

Field Work in 1922 and Recommendations for Further Work.

"The field work was carried on by William L. Russell with excellent results. Part of the time in the field was occupied with gathering information on the oil region. Instrument work was carried on also. The structures of the Third and Fourth sand pools in the Fords Brook area were mapped. A line of elevations was taken across the Richburg Pool so that a structure section could be drawn of it. Eighteen floods of various types and all ages from the oldest and largest to the most recent were mapped and described.

"As a result of this work the following main conclusions were established:

"The flood maps afford a reliable basis for estimating the percentage of the fields that is flooded out, the velocity of the flood, the erratic movements of the water and the effect of cross flooding. They also show conclusively that the velocity of the flood, even where the pressure is the same, varies greatly. Thus the producers should not assume that the flood on their lease will travel at the same rate as it does at another part of the pool, but should study the character of the sand on their individual lease.

Use of Packers

"A study of some of the floods that have been mapped also shows that it is possible in some cases to flood an oil sand without packers when there is a gas sand above the oil sand and in contact with it. On the other hand, this sometimes results disastrously, for the water may run through the gas sand and drown out all neighboring wells. It seems probable that where the gas sand is more impervious than the oil sand the water will travel through the oil sand, and it will be possible to flood without packers. It is however, much safer to use packers unless it has been shown that they are not needed. The velocity of the flood also varies greatly in different directions from the same well. The direction of the main system of joints in this region is between north and east, and some of the floods tend to travel fastest in this derection. This must be due either to joints or to loose streaks in the sand, probably the latter. It is uncertain whether joints affect the floods, but if they do it is very important to flood at right angles to the joints or loose streaks of sand, for otherwise large quantities of the oil will be pocketed. It is certain that a few very coarse and permeable lenses in the sand may and in some cases do, let the water into adjoining wells without getting the oil out of the major part of the sand. It is therefore very important to investigate the methods of detecting these streaks, and shutting them off by packers or mud-laden fluid. In many cases 5,000 barrels per acre or more is obtained by flooding, after the area is regarded as exhausted by the old method of extracting the oil.

Lenses of Sands

"The structure work has shown that, owing to the absence of water in most of the sands, the oil would not be found in the anticlines. In some cases the oil occurs in lenses of sand, the whole of the oil sand being occupied by oil. The Third sand at Fords Brook is of this type, except at its northern end. The Fourth sand pool occurred in a peculiar structure. The oil settled into the lowest part of the sand which pinched out down the dip. The higher parts of the sand contained air or gas. The Richburg Pool probably occurs in a syncline, the higher parts of the sand containing only air or gas. A dome or anticline found near the Ford's Brook Pool was dry.

"Considerable field work in connection with flooding has been completed, and, as previously noted, 18 flood maps have been constructed. These are of the important floods and those that have progressed far enough to make mapping feasible. A structure map of the oil regions is very necessary to serve as a guide for producers in further exploration for oil or gas. Such a map with sections would also correlate the sands, so that the producers would know whether it would be advisable to deepen their wells for sands below those producing. It would tell them at what depth the different sands would be reached. The wildcat wells up to the present have been put down in a very haphazard manner, the drillers frequently not reaching the sand they drilled for, owing to mistakes in correlation. A list, and when possible, logs of the wildcat wells especially those near the border of the oil pools should be obtained. Efforts should be made to determine whether these wells were actually abandoned before the oil bearing sands were reached and a structure map would greatly aid in these determinations. The map would also show the areas in which the structure was favorable for new pools.

Laboratory Work.

"Laboratory work on the extraction problems is also much desired by the producers. This should consist of tests on the porosity of the sands to indicate the oil content per acre and show whether all the oil is extracted by flooding and also experiments on new methods of extraction which have not yet been tried in the field. In this connection it is expected

(Continued on page 90)

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OIL AND GAS FIELDS OF LAREDO DISTRICT

(Continued from Page 16)

and southern parts of Webb and in Zapata Counties, the strike of the Eocene formations is approximately north-south, the dip being, as stated, to the east. The average rate of dip has not been determined.

Topographic Features

In traveling east from Laredo, it is to be noted that for several miles, after crossing Chacon Creek, the country is characterized by successive minor ridges which trend, in general, north-south. These ridges have rather abrupt west face and represent west facing escarpments, marking the outcropping edges of east dipping strata. In some instances the escarpments are held up by a hard stratum consisting chiefly of oyster shell rock. About eleven miles east of Laredo the land becomes more nearly level. Just east of Mirando City is the pronounced Reynosa escarpment to which reference has already been made.

Location of the Oil and Gas Fields

The Charco-Redondo and Jennings fields are located in or near the belt of country referred to above as probably representing the Fayette formation. Each of these localities is some distance from the Reynosa escarpment, the Charco-Redondo locality being possibly seven miles, and the Jennings field probably not quite so far. The Reiser gas field is likewise seven or eight miles west of the Reynosa escarpment. On the other hand, the Mirando and Schott pools and the gas wells of the Carolina-Texas Company are located immediately at the foot of this escarpment.*

Charco-Redondo Wells

The Charco-Redondo oil wells are located in the southeastern part of Zapata County. The wells, now producing, are shallow, varying from 135 to 160 feet in depth. The oil is from sands and sandy shales, slightly greenish in color, found associated with, and usually underlying an oyster shell stratum, which serves as cap-rock. About twenty-one wells have been drilled, of which sixteen are now being pumped, the production being from one to three barrels per day per well.

The oil sand at this locality dips to the east. Thus the westernmost of the wells obtain production at a depth of from 135 to 140 feet, while wells farther to the east on land of equal or lower elevation find the oil sand at from 150 to 160 feet. About one mile west of the oil wells there is a west facing scarp held up by an oyster shell stratum. This oyster shell bed is probably the same as that associated with the oil sand, indicating the eastward dip in the formations.

The producing sands at this locality are probably in the Fayette formation. The oil has a gravity of about 18.5 B, and is said to yield a good quality of lubricating oil.

The Jennings Gas Field

The Jennings Gas Field is located in the northeastern part of Zapata County, about seven miles from the east and nine miles from the north county line. This field was discovered in 1914 when a test well for water obtained gas. Ten or more wells have been drilled. Two of these failing to obtain gas, were drilled to a greater depth and obtained fresh water at about 1900 feet. The yield in the gas wells is said to be, for each successful well, between ten and twelve million cubic feet initial.

Surface exposures of the light colored slightly sandy rock with strata of volcanic ash provisionally referred to the Fayette formation were observed four or five miles northwest of the Jennings field. No exposures were seen immediately within the gas fields, but it is probable that the surface formation at this locality is Fayette. The gas horizon at this locality lies between 1200 and 1300 feet below the surface. It seems probable that the gas horizon is within the Yegua farmation, although formation thicknesses at this locality are not fully determined.

The Mirando Pool

The Mirando Pool is located in the northeastern part of Zapata County, about two miles from the east and three from the north county line. The discovery well in this field was completed in the spring of 1921. Since that time drilling has been actively continued in this field. These wells are located at the foot of the Reynosa escarpment, and at a place where, as indicated on the sketch map, the escarpment bends abruptly to the east.

The producing sands in this field lie at a depth approximating 1450 feet from the surface. The wells are about seven miles north and five miles east of the Jennings gas pool. Since the regional dip is to the east, if the gas at Jennings is from the Yegua, it seems probable that the oil at Mirando Pool is likewise from this formation. On this point, however, the evidence is at present inconclusive. The logs of the deep wells in and near this pool indicate that sandstones are entered at about 1700 feet.

The wells at the west edge of the Mirando Pool produce gas, while in the central part of the pool the wells yield oil with but little gas. The oil is from 21.5 B gravity, and is said to contain very little gasoline.

The Reiser Gas Field

The Reiser Gas Field, in Webb County, is located on and near the Texas-Mexican railway, twenty-five miles east of Laredo. About twelve gas wells have been obtained at the locality, the best of which are reported to have made twenty or twenty-five million cubic feet of gas per day. Formerly the gas from this field supplied Laredo, but is used at the present time only for local purposes.

The chief gas horizon at Reiser is found at a depth of from 650 to 800 feet. Probably the gas in this field is obtained from the Yegua formation, although, as in the case of the other fields in this area, the age of the producing horizon cannot be regarded as definitely determined.

The Schott Pool

The Schott Pool is located about 35 miles east of Laredo, and one and one-half miles south of Mirando City. The discovery well of this field was completed December, 1921. This pool is located near the foot of the Reynosa escarpment. The country is somewhat rolling, and there are occasional hills remaining as outliers or remnants of the Reynosa formation.

The producing horizon of the Schott Pool is found at a depth of from 1525 to 1550 feet. About three miles southwest of this pool are exposures which appear to represent the Fayette formation from which it seems probable that the wells of the Schott Pool, like those of the Mirando Pool, start near the top of the Eocene. Production in the Schott Pool is being obtained from 75 to 100 feet deeper than in the Mirando Pool, the surface elevation being essentially the same. Whether or not production in the Schott Pool is from the same horizon as in the Mirando Pool is undetermined at this time. At Mirando City, some oil has been obtained at a depth of about 1630 feet.

A well located about three-fourths of a mile northwest of the Schott pool apparently passed the oil producing horizon at about 1635 feet. This well continuing to a greater depth encountered a thick body of slightly sandy, blue and pink somewhat calcareous shale which was penetrated to a depth of 2500 feet, where sandstones were encountered.

In the Schott Pool as in the Mirando Pool, gas is found in wells west of those producing oil, apparently marking the west margin of the pool. The producing sands as indicated by the wells dip to the east with possibly a structural nose. The oil of the Schott Pool appears to be very similar in character to that of the Mirando Pool. The well of the Kanoka Oil Company in the Schott Pool, after being cleaned, produced not less than 800 barrels per day.

Carolina-Texas Oil Company Gas Wells

The Carolina-Texas Oil Company has a well from which gas has been obtained, located about seven miles east of north of Torrecillas. This well is at the foot of the Reynosa escarpment, and at a place where a small stream enters from the highland, forming a re-entrant in the margin of the scarp.

Some gas was obtained from this well at 1295 feet, but the principal gas horizon is reported at a depth of 2015 feet. The formation from which the gas is obtained is undetermined. This well is about ten miles north and four miles east of the Schott Pool. A second well drilled at this locality obtained some gas at 1296 feet.*

Well Records

A summary of representative wells in these two counties is given in the table which follows. In addition a number of logs are included indicating the drilling conditions in the several fields.

Summary of Representative Wells

Carolina-Texas Oil Company, Surv. 268, 7 miles N. N. E. of Torrecillas, 2015 feet. Gas show at 1270-1279 feet. Gas at 2015.

Zapata Oil and Gas Company, Charco

*Among gas wells more recently obtained by the Carolina-Texas Company one is reported to be located on the escarpment.

*Two additional wells drilled since this manuscript was submitted and located east of the first two wells are reported to have obtained gas.

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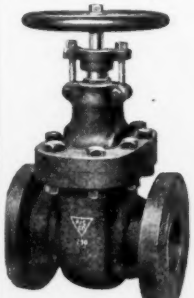

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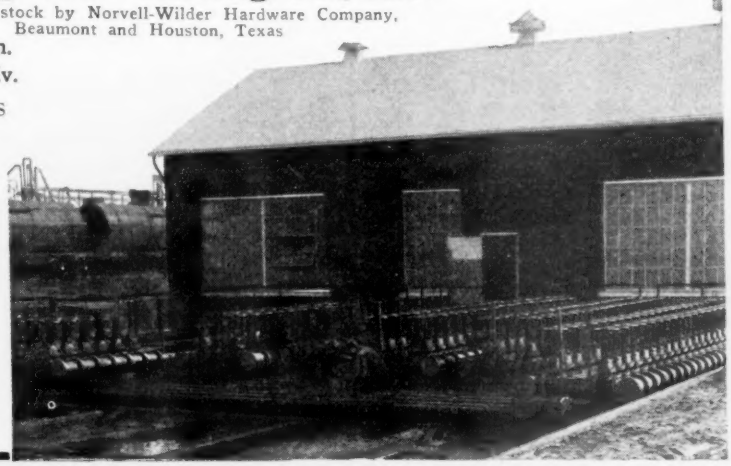

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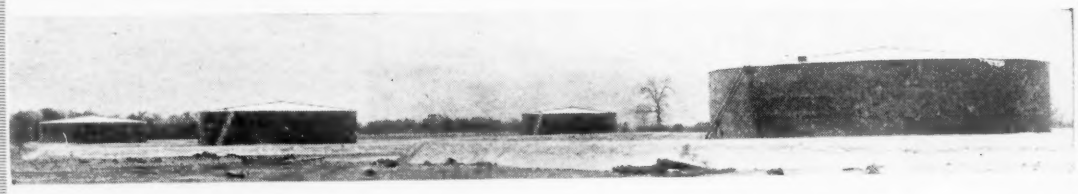
FOUR FIFTY-FIVES AT MEXIA



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Redondo, 1735 feet. Oil sand at 163-168. Gas show in sand at 932-965.

Jennings Gas Field

Texas Company, Jennings No. 4, 1½ miles N. W. of ranch house, 3015 feet. Fresh water at 1963.

Texas Company Jennings No. 3, 2½ miles N. E. of ranch house, 1367 feet. 12,000,000 feet gas at 1265-1367. Rock pressure 455 pounds.

Texas Company Cuellor No. 1, 1½ miles E. N. E. of ranch house, 1234 feet. 9,000,000 feet gas at 1229-1234. Rock pressure 460 pounds.

Mirando Pool

Keeton Syndicate No. 2, N. W. part of pool, Blk. 23, 1467 feet. Gat at 1445-1467.

Mirando Oil Company No. 2, S. part of pool, Blk. 5, 1502 feet. Show of oil at 1447-1452.

Mirando Oil Company No. 3, S. part of pool, Blk. 5, 1426 feet. Producer. Discovery well.

Mirando Oil Company No. 4a, S. part of pool, Blk. 5, 1458 feet. Oil sand at 1433-1442.

Mirando Oil Company No. 7, central part of pool, Blk. 17, 1490 feet. Oil sand 1470-1476. 100 barrels.

Witherspoon Oil Company No. 4, N. part of pool, Blk. 18, 2000 feet. Sandrock 1735-2000.

Witherspoon Oil Company No. 1, central part of pool, 1460 feet. Reported producing. 80 barrels.

Tenn-Zapata Oil Company No. 1, S. W. part of pool, Blk. 16, 1476 feet. Gas well, sand 1443-1455.

Zapata Red. & Ref. Company, survey 113, S. of pool, 1730 feet. Reported dry.

Reiser Gas Field

Producers Oil Company, B. & M. No. 5 (completed by Brethwith & Allison), near Reiser, 2598 feet. Water at about 1800 feet. Sands 200 feet from surface. Gas reported at 2500 feet.

Reiser No. 1, 1 mile east of Reiser, 2240 feet. Mineral water at 1500.

Reiser No. 4, at Reiser, 685 feet. Gas in use for local supply.

Schott Pool

Kanoka Oil Company No. 1, N. central part of pool, Blk. 6, 1559 feet. Oil sand at 1545-1559. Reported making 800 barrels per day.

Laurel Oil Company No. 1, W. part of pool, Blk. 9, 1539 feet. Gas well.

Leaseholders Oil Company No. 1, W. part of pool, Blk. 10, 1599 feet. Gas well.

Schott Oil Company No. 2, central part of pool, Blk. 11, 1532 feet. Gas and oil at 1530-1532.

Schott Oil Company No. 3, E. part of pool, Blk. 12, 1588 feet. Oil at 1571-1588.

Schott Oil Company No. 1, west of pool, survey 462, 1750 feet. Ends in red and blue shale and gumbo.

South Plains Oil & Gas Company, N. W. of pool, survey 460, 2500 feet. Below 1600 chiefly red and blue shales.

Laredo Oil Company No. 2, in Mirando City, 1635 feet. Oil at about 1635.

Well Logs in Webb County

The following logs of wells in Webb County are arranged alphabetically according to owners of the land on which the wells are located, and the company owning the well.

Log of Albercas No. 1, Albercas Oil Company, Survey 836, About Three Miles North Slightly West of the Mirando Pool

	Feet	
Red sandy clay	0	42
Blue clay and boulders	42	79
Shale	79	132
Gumbo	132	142
Shale and boulders	142	163
Green shale and boulders	163	246
Lime rock	246	250
Hard sandy shale	250	281
Blue and green gumbo, shale	281	410
Hard gummy shale	410	506
Shale and boulders	506	613
Water sand	613	671
Gumbo	671	710
Gummy shale and boulders	710	778
Shale and sand, oil showing, Tested out but no results	778	789
Hard shale	789	840
Packed sand	840	871
Shale and sand	871	961
Hard shale	961	992
Gumbo	992	1,055
	Feet	
Hard shale	1,055	1,142
Gumbo	1,142	1,172
Shale and boulders	1,172	1,280
Hard sandy shale	1,280	1,309
Gumbo	1,309	1,318
Hard and soft shale, blue and brown	1,318	1,445
Shale and boulders	1,445	1,489
Packed sand	1,489	1,491
Hard shale	1,491	1,505
Lime rock	1,505	1,507
Hard shale, pyrites and b'ldrs	1,507	1,548
Lime rock	1,548	1,550
Gumbo	1,550	1,559
Shale and boulders	1,559	1,585
Hard gumbo	1,585	1,661
Hard shale	1,661	1,684
Gumbo	1,684	1,709
Hard shale and boulders	1,709	1,720
Hard and soft sand rock	1,720	1,727
Hard sand rock, showing gas. Tested, no results	1,727	1,734
Soft sand	1,734	1,739
Hard shale, total depth	1,739	1,797

Began December 7, 1921; completed February 11, 1922; set 8-inch, casing at 743 ft; set 6inch casing at 1735 ft; 1 ft. in rock. 8-inch casing left in hole and derrick left standing with intention of drilling deeper.

Log of Barusly No. 1. Carolina Texas Oil Co. Survey 268, About Four Miles Northeast of Mirando City

Clay	0	22
Rock	22	48
Sand	48	56
Rock	56	59
Shale	59	72
Sand	72	77
Shale and boulders	77	103
Rock	103	108
Sandy shale	108	141
Rock	141	142
Sand	142	160
Rock	160	162
Sandy shale	162	195
Rock	195	197
Sand	197	217
Gas rock	217	220
Sand	220	228
Rock	228	229
Sandy shale	229	254
Gumbo	254	260
Sand	260	270
Sand and boulders	270	310
Rock	310	312
Sand and boulders	312	375
Rock	375	380
Sandy shale	380	402
Gumbo	402	407
Sand and boulders	407	428
Pay	428	435
Gumbo	435	440
Sand and boulders	440	460
Rock	460	464
Sandy shale and boulders	464	610
Gumbo	610	616
Water sand	616	630
Sand and boulders	630	760
Pink gumbo	760	764
Sand and boulders	764	780
Gas sand	780	796
Sand and boulders	796	827
Pay sand	827	835
Sand and boulders	835	910
Gumbo	910	916
Hard sand	916	930
Sandy shale	930	970
Sand	970	1,000
Rock	1,000	1,002
Sandy shale	1,002	1,060

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	Feet	
Rock	1,060	1,065
Water sand	1,065	1,070
Sand	1,070	1,085
Gumbo	1,085	1,088
Sand and boulders	1,088	1,130
Gumbo	1,130	1,135
Rock	1,135	1,137
Pack sand	1,137	1,155
Gumbo	1,155	1,168
Gumbo	1,168	1,195
Sandy shale	1,195	1,222
Gumbo	1,222	1,226
Sandy shale	1,226	1,270
Pay	1,270	1,295
Clay (?)	1,295	1,322
No log 1,322 to 1,401. This well deepened by Trussle, Brown & Hodges		
Sandy shale	1,401	1,466
Sand and shale	1,466	1,535
Shale and boulders	1,535	1,550
Sand	1,550	1,568
Gumbo	1,568	1,573
Shale and boulders	1,573	1,600
Gumbo	1,600	1,608
Sandy shale and boulders	1,608	1,654
Shale	1,654	1,685
Gumbo	1,685	1,700
Sandy shale	1,700	1,725
Hard shale	1,725	1,732
Shale	1,732	1,800
Gumbo	1,800	1,815
Hard sand	1,815	1,827
Shale	1,827	1,995

Total depth, 2,015. Shale grades into sandy shale and apparently into a coarse grained sandstone, which is producing about 8 million cubic feet gas.

Log of Folts No. 1, Santa Maria de los Angeles Survey, About One-half Mile East of Bruni, in Eastern Part of Webb County

	Feet	
Soil	0	5
Sand and clay	5	10
Sand and clay	10	50
Hard sand	50	75
Lime rock	75	105
Gravel and water sand	105	115
Sandy shale	115	175
Water sand	175	225
Hard shale	225	325
Gumbo	325	400
Blue shale	400	525
Water sand	525	625
Blue shale	625	800
Gummy red shale	800	1,000
Blue shale	1,000	1,100
Gummy red shale	1,100	1,200
Black shale	1,200	1,300
Hard blue shale	1,300	1,400
Gumbo	1,400	1,475
Hard sandy shale	1,475	1,500
Soft blue shale	1,500	1,600
Gas sand	1,600	1,625
Hard black shale	1,625	1,700
Sea shell	1,700	1,705
Sandy shale	1,705	1,790
Sea shell	1,790	1,800
Soft sandy shale	1,800	1,810

Casing set at 1,875 in cement; 4½-inch lines set at 1,650.

Hole was bailed dry, making quite a bit of gas; pulled lines and finished hole at 1,810 feet, with no oil showing.

Log of Kanoka No. 1, Survey 54, About One and One-half Miles South of Mirando City. After Cleaning, Well produced 800 barrels or more. Discovery well in the Schott Pool

Surface soil	0	5
Yellow clay	5	18
Soft lime clay	18	42
Loose gray shale	42	74
Red and blue shale	74	110
Water sand	110	116
Fine blue sand	116	150
Red mixed shale	150	210
Hard red clay	210	230
Red mixed shale	230	252
Soft lime clay	252	274
Red mixed shale	274	296
Blue shale	296	320
Gummy shale	320	332
Red and blue shale	332	373
Hard gummy shale	373	399
Gumbo	399	411
Soft lime rock	411	420
Red and blue shale	420	448
Hard lime rock	448	453
Red and blue shale	453	512
Hard lime rock	512	522

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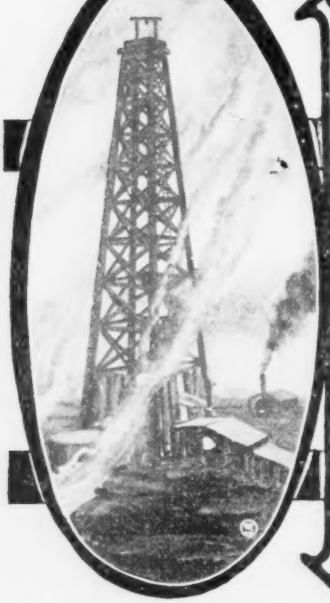

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	Feet	
Hard blue shale and lime	522	601
Hard gummy shale	601	622
Lime rock	622	635
Red and blue shale	635	660
Lime rock	660	672
Hard blue shale	672	700
Lime rock	700	776
Red and blue shale	776	844
Lime rock	844	860
Red and blue shale	860	940
Lime rock	940	978
Red and blue shale	978	1,000
Lime rock	1,000	1,023
Red and blue shale	1,023	1,073
Gumbo	1,073	1,084
Lime rock	1,084	1,102
Gumbo	1,102	1,114
Hard gummy shale	1,114	1,129
Red and blue shale	1,129	1,140
Lime rock	1,140	1,162
Hard gummy shale	1,162	1,184
Gumbo	1,184	1.196
Red and blue shale	1,196	1,216
Gumbo	1,216	1,227
Lime rock	1,227	1,248
Gummy shale	1,248	1,271
Lime rock	1,271	1,282
Gumbo	1,282	1,293
Red and blue shale	1,293	1,304
Gumbo	1,304	1,313
Lime rock and shale	1,313	1,328
Red and blue shale	1,328	1,350
Lime rock	1,350	1,362
Hard blue shale	1,362	1,374
Red and blue shale	1,374	1,396
Lime rock	1,396	1,406
Hard blue shale	1,406	1,440
Lime rock	1,440	1,462
Hard blue shale	1,462	1,499
Lime rock (gas big)	1,499	1,508
Hard blue shale	1,508	1,513
Hard lime rock (gray sand) set casing 1515 ft.	1,513	1,515
Lime rock	1,515	1,517
Shells and shale	1,517	1,522
Sand rock	1,522	1,523
Shale and sand	1,523	1,533
Gumbo	1,533	1,537
Shells and shale	1,537	1,543
Hard lime rock	1,543	1,545
Hard sand (heavy oil sand)	1,545	1,559

Stopped in gumbo.
Set casing in cement.
Set 66 feet, 7 inches.

Log of Garcia No. 2, Schott Oil Company, Survey 54, About One and One-half Miles South of Mirando City. Gas and Oil Well, Initial Production Oil Reported at 74 Barrels.

Yellow sand	0	2
Soft lime clay	2	10
Yellow clay	10	30
Blue shale	30	57
Red clay	57	107
Soft lime rock	107	135
Hard blue shale	135	163
Lime rock	163	165
Hard blue shale	165	220
Blue shale and sand	220	260
Gumbo	260	290
Blue shale	290	330
Red and blue shale	330	342
Blue shale and sand	342	475
Soft lime rock	475	490
Hard blue shale and sand	490	537
Lime rock	537	563
Tough gumbo	563	600
Lime rock	600	637
Gumbo	637	670
Lime rock	670	673
Gumbo	673	685

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	Feet	
Lime rock	685	687
Gumbo	687	700
Hard blue shale	700	745
Lime rock	745	750
Red and blue shale	750	800
Soft lime rock	800	805
Red and blue shale	805	861
Lime rock	861	873
Gumbo	873	897
Blue shale	897	930
Lime rock	930	918
Gumbo	918	937
Blue shale and sand	937	960
Tough gumbo	960	983
Soft rock	983	1,000
Hard blue shale	1,000	1,020
Gumbo	1,020	1,057
Lime rock	1,067	1,083
Red and blue shale	1,083	1,100
Gumbo	1,100	1,115
Lime rock	1,115	1,160
Hard blue shale	1,160	1,187
Lime rock	1,187	1,193
Hard blue shale	1,193	1,213
Gumbo	1,213	1,237
Lime rock	1,237	1,275
Gumbo	1,275	1,297
Hard blue shale	1,297	1,317
Lime rock	1,317	1,350
Gumbo	1,350	1,357
Hard blue shale	1,357	1,384
Lime rock	1,384	1,400
Blue shale	1,400	1,410
Soft blue mud	1,410	1,427
Soft lime rock	1,427	1,449
Red and blue shale	1,449	1,467
Soft lime rock	1,467	1,482
Hard lime rock	1,482	1,500
Tough gumbo	1,500	1,510
Hard lime rock	1,510	1,515
Soft lime rock	1,515	1,523
Hard lime rock	1,523	1,527
Hard blue rock, sandstone	1,527	1,530
Porous gray sand rock	1,530	1,532

WELL LOGS IN ZAPATA COUNTY

Log of Hinnant No. 6 Mirando Oil Company, Survey 114, Block 5 Lot 1, Initial Production 150 Barrels, Mirando Pool

	Feet	
Clay and gravel	0	98
Pack sand	98	100
Blue shale	100	140
Hard shale	140	150
Shale and sand	150	170
Shale	170	360
Boulders	360	371
Shale	371	590
Gumbo	590	600
Shale	600	638
Sandy shale	638	641
Shale	641	658
Boulders	658	665
Shale	665	720
Boulders	720	725
Hard sandy shale	725	815
Hard red gumbo	815	826
Hard shale	826	857
Rock	857	860
Shale	860	863
Hard shale and boulders	863	1,040
Green gumbo	1,040	1,059
Hard shale	1,059	1,099
Green gumbo	1,099	1,108
Hard shale and boulders	1,108	1,123
Blue shale	1,123	1,167
Hard shale boulders	1,167	1,231
Stiff blue gumbo	1,231	1,257
Hard shale	1,257	1,320
Shale and boulders	1,320	1,384
Hard shale	1,384	1,401
Green gumbo	1,401	1,412
Pay shale and sand	1,412	1,425
Gumbo	1,425	1,431
Hard shale	1,431	1,448
Pay sand and shale	1,448	1,462
Boulders	1,462	1,467

Log of Hinnant No. 7 Mirando Oil Company, Survey 307, Block 17, Lot 4, Completed November 26, 1921, Mirando Pool

	Feet	
Clay and gravel	0	12
Mixed shale	12	48
Hard sandy shale	48	65
Mixed shale	65	182
Hard shale	182	220
Hard shale and boulder	220	273
Hard sand	273	275
Sandy shale	275	348
Hard sand and boulder	348	362
Rock	362	365
Hard shale	365	385
Hard sand	385	387
Sandy shale	387	501
Hard shale	501	545
Green shale and boulder	545	567
Hard shale	567	587
Hard shale and boulder	587	704
Gumbo	704	710
Hard shale and boulder	710	760
Gumbo	760	778
Hard shale and boulder	778	840
Gumbo and boulder	840	865
Hard shale and boulder	865	906
Hard shale	906	956
Gumbo	956	991
Hard shale and boulder	991	1,030
Hard shale and boulder	1,030	1,034
Gumbo	1,034	1,040
Hard shale and boulder	1,040	1,071
Boulder	1,071	1,081
Hard shale	1,081	1,165
Gumbo	1,165	1,180
Hard shale and boulder	1,180	1,252
Gumbo and boulder	1,252	1,290
Hard shale and boulder	1,290	1,362
Hard shale	1,362	1,392
Gumbo	1,392	1,403
Shale	1,403	1,446
Gumbo	1,446	1,470
Hard sand	1,470	1,476
Shale	1,476	1,499

Casing record: 6-in, 1398 feet; initial production reported at 100 bbls.

Log of Hinnant No. 3, Witherspoon Oil Company, Survey 115, Block 3, Mirando Pool

	Feet	
Red clay and gravel	0	60
Soft shale	60	186
Shale and boulders	186	336
Loose shale	336	520
Shale and boulders	520	620
Gumbo	620	645
Hard gumbo	645	655
Shale and boulders	655	710
Gumbo	710	720
Hard gumbo	720	760
Gumbo and gravel	760	810
Hard gumbo	810	840
Pink shale	840	900
Gumbo	900	920
Shale	920	940
Hard gumbo	940	980
Gumbo	980	995
Pink shale	995	1,050
Hard shale and boulders	1,050	1,070
Shale and boulders	1,070	1,100
Gumbo and shale	1,100	1,150
Hard gumbo	1,150	1,200
Shale	1,200	1,220
Hard sand and boulders	1,220	1,260
Hard gumbo	1,260	1,320
Hard sand and boulders	1,320	1,350
Sandy shale	1,350	1,360

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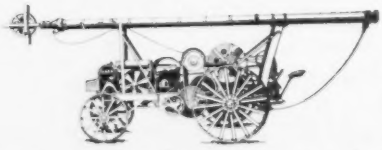

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	Feet	
Sand and shale	1,360	1,364
Gumbo	1,364	1,368
Shale	1,368	1,375
Sand, good oil showing	1,375	1,390
Soft shale	1,390	1,435
Hard sand, oil showing	1,435	1,440
Shale and sand	1,440	1,490

Reported producing 90 bbls. per day in April, 1922.

Log of Hinnant No. 4, Witherspoon Oil Company, Survey 307, Block 18, Mirando Pool; Well Abandoned

Red clay and gravel	0	60
Shale	60	180
Shale and boulders	180	400
Gumbo	400	460
Gumbo and particles of iron	460	620
Boulders and shale	520	600
Gumbo	600	680
Shale and boulders	680	760
Sand rock	760	770
Hard gumbo	770	820
Hard sandy shale	820	860
Sand and boulders	860	900
Hard gumbo	900	940
Shale and boulders	940	1,110
Hard shale	1,110	1,140
Boulders and gumbo	1,140	1,220
Shale and boulders	1,220	1,250
Gumbo	1,250	1,260
Shale and sand upper pay	1,260	1,380
Hard gumbo and sand	1,380	1,435
Soft shale and sand	1,435	1,445
Hard brown gumbo	1,445	1,450
Hard gumbo	1,450	1,490
Sand	1,490	1,500
Gumbo	1,500	1,563
Rock	1,563	1,565
Hard gumbo	1,565	1,600
Sand	1,600	1,610
Gumbo	1,610	1,690
Rock	1,690	1,692
Sandy shale	1,692	1,700
Not recorded	1,700	1,735
Hard sand rock	1,735	2,000

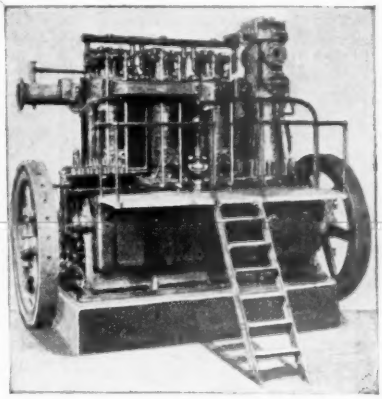
Log of Slator No. 1, Producers Oil Company, Jose Borego Vosquez Grant, Within About a Mile of North County Line; Elevation 595

Soil	0	45
Shale	45	65
Sandy shale	65	84
Black shale	84	208
Gumbo	208	221
Sand	221	230
Shale	230	345
Gumbo	345	395
Shale	395	507
Sand	507	512
Shale	512	691
Gumbo	691	720
Shale with iron	720	814
Rock, white	814	820
Shale, black	820	1,104
Sand	1,104	1,106
Black shale	1,106	1,116
Sand	1,116	1,119
Shale	1,119	1,291
Sulphur, water, sand and shale	1,291	1,400
Blue shale	1,400	1,419
Sand	1,419	1,424
Shale	1,424	1,443
Shale and sand	1,443	1,460
Sand and iron	1,460	1,493
Shale	1,493	1,503
Rock and sand	1,503	1,508
Shale	1,508	1,527
Rock sand and iron (show gas 1,532-1,540)	1,527	1,551
Sulphur water, sand	1,557	1,563
Sand and iron	1,563	1,580
Shale	1,580	1,588
Flinty rock and sand	1,588	1,612
Shelly shale	1,612	1,649
Sand and iron	1,649	1,747
Shale	1,747	1,759
Shells and pyrite	1,759	1,791
Shale	1,791	1,895
Lime rock	1,895	1,902
Shelly shale	1,902	1,920
Lime shell	1,920	1,925
Shelly shale	1,925	1,964
Slate	1,964	1,984
Shelly shale	1,984	2,020
Shale and slate	2,020	2,107
Shale, sandy	2,107	2,194
Sand	2,194	1,195
Shale, sandy	2,195	2,210

Los Angeles, Calif., Oct. 21.—South Whittier Community 4 of the Standard Oil Company at Santa Fe Springs made 6400 barrels of oil October 15 through a one-inch choker, and is the biggest well in the west. It is approximately 4650 feet. The oil is 25 gravity.

Reeves Vertical Gas Engine and Compressor

Built in one unit



This type of unit is built in all sizes up to 225 H. P.
Built with one, two or three power cylinders and one compressor cylinder, depending on the size of engine and requirements.
This is one of the most compact units on the market—built on one foundation, which results in low cost of installation, due to reduced freight, hauling, and installing charges.
Continuous operation under the most difficult conditions proves its reliability at all times.
It eliminates belts from engine to compressor.
Operating efficiency per unit of fuel cost is remarkably high.
This unit is ideal for gas boosting stations, gasoline plants, or wherever gas or air compressor is desired.
For full data write or wire.

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Forty-Six Wells Are Drilling in The Kevin-Sunburst District

KEVIN, MONTANA, Oct. 21.—With 46 wells actually drilling, 20 completions, and many more rigs going, the outlook is bright in the Kevin Sunburst field for intensive development.

The completion of the Mid-Northern well on the Dawson-Merkle tract 9-35-2 west is generally understood to mark the best well in the field, and estimates place the production at 250 to 300 barrels. It blew out twice following the swabbing, scattered oil and debris in all directions. A cave at 300 feet from the bottom and one at 150 feet had bridged, and in cleaning the latter the two blowouts occurred, the gas pressure being heavy, and the oil standing within 10 feet of the top. It was expected that the well would be cleaned soon and the bit, which is but 12 inches in the Ellis, would be drilled down to find real production. Until that is completed it would be hard to estimate the production of the well except that it is surely as stated, and may go much more with penetration of the Ellis, dependent upon the depth of the bed.

About 250 barrels of oil have been taken out in cleaning and swabbing, and it is expected to connect with the Illinois pipe line as soon as possible, and the final test made. The well is down 1663 feet, and the number of offsets might indicate that oil men consider it a good one.

An interesting fact in connection with this well is called to mind by the fact that the 3-in-1 well in the eastern part of the field at 1425 feet, has no real bed, but is believed to be working in the Kootenai. This is the only well so far drilled in the field except the Mid-Northern Dawson-Merkle well, which has no real bed, the latter well being the first to drill in without it, and because of that many oil men in the field believed until the Dawson-Merkle struck production that it might prove a failure.

There is a considerable number of wells nearing completion and the next few weeks should witness considerable development in showing for the field. Three wells are drilling in the immediate vicinity of Shelby and the south field is receding. The Gladys Belle is working steadily, running 200 to 270 barrels per day, and is growing stronger. Work on the Illinois pipe line is being rushed with all the men possible to get, and the line will be connected with all of the producers within a few weeks. Considerable work is going on toward the north end of the field, this side of the line, and about 18 wells are drilling on the arch across the line.

RESTORING PRESSURE TO NEW YORK OIL SANDS

(Continued from page 80)

that some drill cores will be obtained for study and experiment.

"It is greatly desired also that some experiment be made with hot water which not only will melt the troublesome paraffin at the bottom of the well but will also lessen the viscosity of the oil thus making its passage through the sand easier. The use of water with either air or gas should be tried. This is known as the "bubble" method. Some further work should be done to determine the best methods for applying additional pressure to flooded wells. This applies especially to the shallow wells where the hydrostatic pressure of column of water is not great enough to give the best results. The pressure under which a flood well will give the most efficient results should be carefully studied. If great pressure can be applied to a flood well it will greatly save in cost for the new wells can be drilled farther apart. There are however, many other factors to be taken into consideration and a thorough study should be undertaken of all the factors involved. In a flood region a large number of wells are required. These are costly and it is highly important that a special study be made of well spacing so that as much oil may be recovered as possible with fewest number of wells, and at a minimum cost.

"Although the method of obtaining oil by flooding is still in its infancy enough is known to insure it success in the New York oil fields. Already the pipe line companies and some individual companies report an increase in the amount of oil obtained in districts which under the old method were showing an annual decline. Although figures can not be obtained showing the increase in production of oil due to flooding alone it is significant to note that during the last six years there has been a gradual increase in production, and this from a field that is now more than forty years old."

Swiftsure Increases Tankage at Texas City

Texas City, Texas, Oct. 24.—The Swiftsure Petroleum Company, Houston, Texas, has purchased 14 acres adjoining on the north side of its present 38-acre tract on which the Terminal Oil & Refining Company, Texas City, is located. This purchase was made from the Mainland Company, Texas City.

A contract has been awarded to the Kansas City Structural Steel Company, Kansas City, by the Swiftsure Petroleum Company to erect two 55,000-barrel steel storage tanks for the immediate expansion of the capacity of the plant.

The additional storage which is now under construction will give the Swiftsure Petroleum Company a total storage capacity of 510,000 barrels. The company is also building a shell road from the city streets to their plant and offices.

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NEW EQUIPMENT, CATALOGS, BULLETINS, BOOKS

New Overshot Invented By California Oil Man

The Pacific Oil Tool Company, of Los Angeles, California, manufacturers of the Crowell Oil Saver, have the manufacturing rights on the new Segelhorst Overshot. A. L. Segelhorst, inventor of the tool, is with the Standard Oil Company of California, and is a production man of long experience.

This fishing tool carries an interesting principle in that it readily cuts its way back over the collars and joints, when rotated, so that in case it is desired, for any reason, to withdraw the fishing tools, there is no difficulty in disengaging the hold which the overshot has maintained on the string of casing or tubing.

Simplicity Is Big Idea In New Rotary Disc Bit

It is claimed that one reason why the old fish tail bit has maintained its favor with many drillers is due to its simplicity.

Simplicity is one of the big ideas that has been built into the "Rotary Disc Bit" now being manufactured in Los Angeles, and used on a good many wells drilling in California.

The rotary disc bit, as the name implies, is a drill bit for rotary work, comprising a pair of metal discs at the end of the bit stem, which roll upon the surface being penetrated, when the bit is rotated. These discs are made of manganese of unusual hardness and resistance. They are easily detachable from the bit stem, and thus the tool can be renewed by simply renewing the discs.

Claims made for the new bit are that it will work in either hard or soft formation; that it makes hole rapidly; that it decreases the stram on drill pipe by 50 per cent; and that it is a money saver.

Several of the larger companies in California are using this bit, and some good records have been made with it. What is claimed to be a world's record for fast drilling, when 2340 feet of hole was made in 8 days, was made by Bailes Brothers at Long Beach, recently. The Shell Company of California made 3864 feet in 31 days, at Huntington Beach.

The new tool is being manufactured and sold by The Rotary Disc Bit Company, 2176 East 9th Street, Los Angeles.

NEW CATALOG ON C. S. CASING-HEAD AND AUTOMATIC SLIPS

A new booklet entitled "The Answer to All Tubing Troubles" has just been compiled by the Oil City Iron Works, Inc., 204 Grand Street, Shreveport, La., and is being distributed to the trade.

The book describes the C. S. way of "Getting all the oil you pump, pump more and get in production sooner." The C. S. Casinghead and automatic slips are explained and well illustrated. Specifications are also given.

New Device Assists in Pumping of Deep Wells

The Mead Pump Assister, a new device to assist in handling the production from pumping wells and especially those in which the working barrel is not able to handle the oil, has recently been offered to the trade by Mead and McDonald of Los Angeles, California. According to its manufacturers the new device is now being used with much success by several of the larger operating concerns in the California fields.

The Mead Pump Assister is made of a hollow steel body, to one end of which is attached a steel casting head with ports through which the fluid passes and through the center of the body two stems having regular sucker rod connections on opposite ends are coupled. On the upper stem a check valve is attached, which is free to move up and down, seating upon the ports. An "oil riffle" is made by cutting the outside body with rounded grooves which serves as a packing and keeps the oil or fluid from passing back.

The new device, it is claimed, serves a two-fold purpose, that of relieving to some extent the heavy lift in deep well pumping and to act as a guide for sucker rods.

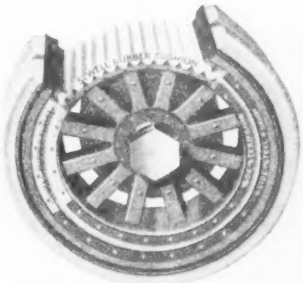
In operation a number of assisters are placed in the well connecting to the sucker rods at distances of about 200 feet apart.

The inventor of the apparatus, Mr. Mead, is a pioneer oil man of California, having served with the Doheny interests there. The patent is held jointly by him and J. V. MacDonald, formerly special oil field representative of the Chain Belt Company, who have organized the firm of Mead and MacDonald. Offices of the company are located at 2708 Santa Fe Avenue, Los Angeles.

Improvements on Truck Wheels Have Been Made

Several recent improvements have been made on the Sewell Cushion Wheel, which according to its manufacturers is proving very successful on trucks hauling heavy oil field equipment.

One of the new improvements to be made to the wheel is the application of the rubber side flange. These rubber side



flanges, it is claimed serve a two-fold purpose in that they protect the soft pliable inner cushion from deterioration and further aid in supplying resiliency on the truck operating light or empty.

Following is a cut showing the Sewell Cushion Wheel with new improvements; manufacturers maintain headquarters at Detroit, Michigan.

LINK BELT COMPANY'S NEW CATALOG NOW READY

The Link Belt Company of Chicago, Philadelphia and Indianapolis, announces the completion of a new general Catalog, No. 400, which embraces their entire line. The new book is one of the most complete ever issued on these subjects. It consists of 832 pages, is cloth bound and can be obtained from any Link-Belt branch office.

The Catalog also includes the products of the H. W. Caldwell & Son Company plant of that company.

BULLETIN ON TANK GAUGES BY PNEUMERCATOR CO., INC.

The Pneumercator Company, Inc., of 40 Flatbush Avenue, Extension, Brooklyn, New York, have recently issued a bulletin illustrating Pneumercator Tank Guages. The bulletin describes the various model of tank guages manufactured by the company in detail with cuts accompanying.

The OIL WEEKLY will print on this page data on new oilfield equipment, improvements on old equipment, news of new catalogs, bulletins, etc. This department is handled exclusively by the editorial department and has no connection with the advertising department. Data will be carried on anything which the editorial department thinks of interest to our readers, regardless of whether or not the manufacturer is an advertiser in The OIL WEEKLY.—Publisher.

PERSONAL MENTION-MEN YOU KNOW

Ralph W. Garrett, head of the legal department of the Sinclair interests in North and Central West Texas with offices in Wichita Falls, has been transferred to Tulsa as a legal representative of the Sinclair Pipe Line Company.

Paul H. McDermott of the legal department of the Sinclair interests at Wichita Falls, has been transferred to the Fort Worth offices of the Sinclair Pipe Line Company.

Frank Cullinan, vice president of the Republic Production Company with headquarters at Dallas, visited in Wichita Falls last week.

M. M. Doan, Mid-Continent producer and chairman of the Central Committee on Shut-Down and Storage, has returned to Tulsa after a visit to eastern points.

C. E. Crawley, vice president of the Sinclair Oil and Gas Company, is another Tulsa man recently returned from a summer spent in Europe.

The following officials of the Barnsdall Corporation were Tulsa visitors last week: E. B. Reeser, vice president; E. O. Bartlett, secretary-treasurer and S. H. Minard, general superintendent of mining properties. They have been in Mexico recently.

F. G. Blake, lubrication engineer for the Gulf Refining Company with headquarters at Houston, spent the past week looking into the lube and grease wants of the producers and refiners in the Wichita Falls district.

Albert R. Beymer, chief scout for the Paragon Oil Company with offices at Wichita Falls, has been temporarily transferred to perform geological and statistical work for the Paragon Development Company in Cumberland County, Kentucky.

Hill Bostick of the Gulf Production Company, drilling superintendent at Goose Creek, and S. O. Hemphill, secretary of the Gulf Coast Machine and Supply Company, Beaumont, were among those who "rode the camel" in the Shrine ceremonial at Houston last Saturday.

E. V. S. Lowerre, scout for the Pure Oil Company in North and Central West Texas, has been transferred to the Tulsa offices of the company.

C. H. Hamilton, for the past three years district sales manager for the Standard of California, in Los Angeles and Southern California, has gone to San Francisco headquarters to become manager of the lubricating oil division. J. E. Balsley, district sales manager at Portland, will succeed Mr. Hamilton at Los Angeles.

D. R. Thompson, geologist with the Amalgamated Oil Company at Los Angeles, has resigned to become superintendent of operators for the Industrial Oil Syndicate. The latter is a new organization, preparing to drill at Santa Fe Springs.

Robert Watchorn, president of the Watchorn Oil and Gas Company, has been visiting the holdings of his company in the Morrison field of the Otoe Indian reservation. His company completed the first oil well there. The company has four wells now drilling.

A. C. Bedford, chairman of the Board of the Standard Oil Company (New Jersey) will make an address on foreign trade on Thursday, October 26, to American Manufacturers Export Association in banquet at the Waldorf-Astoria in New York.

Mason Day, president of the Barnsdall Corporation, is back in the States again after an extended trip to Russia.

Frank Goodwin, assistant manager of the Dallas offices of the New Domain Oil & Gas Company, was a business visitor in Wichita Falls last week.

R. H. Christy, district manager of the Oil Well Supply Company, Houston, Texas, was able to resume duties at his office Monday after being sick for several days with the "dengue."

R. S. Mathiott, credit manager of the Oil Well Supply Company, Shreveport, La., was at the Houston office for several days during the week.

B. T. McNeil, secretary of the Swiftsure Petroleum Company, Houston, Texas, was in Dallas for several days during the week on business for the company.

Death Claims Prominent Houston Oil Operator

Houston, Texas, Oct. 23.—Niels Esperson, well known millionaire oil operator of this place, died early Saturday morning at a Chicago hospital, according to a message received at his local offices from Mrs. Esperson. Mr. Esperson was returning with his wife from a business trip to New York when he became ill at Chicago and was forced to go to the hospital. He was 65 years of age.

Mr. Esperson was born in Bornholm, Denmark, coming to the United States in 1872 and entering the mining business in California. In 1889 he moved to Oklahoma and became active in the early oil development of that state and Kansas. He came to Houston in 1905 and identified himself with the opening of the Humble field. Since that time Mr. Esperson has been among the foremost operators in the Coastal section.

Funeral services were to be held in Houston early this week.

Mike McNamara, district supervisor for the oil and gas division of the Texas Railroad Commission in Central West Texas, was called to Corsicana last week to testify in the Mayfield election case. He and Mr. Mayfield, railroad commissioner and democratic nominee from Texas for United States senator, disagreed on an election contribution and it's up to the jury to decide. Mike's friends are backing him to the last ditch.

T. J. McMahon, oil dispatcher for the Texas Pipe Line Company, has been forced away from his work for a few days following an attack of dengue fever.

Walter M. Dunham, well known oil statistician, was in Houston during the past week working up some figures on the Gulf Coast country. Mr. Dunham has a collection of production figures that far exceeds those ever compiled before.

Fred Myer of the firm of Myer Brothers, Ltd., was back in his offices at Houston early this week after a brief business trip to North and Central West Texas points. Mr. Myer announces that he is preparing to start work on his holdings in the Kosse area.

A. M. Pate, formerly of the sales department of the Oriental Oil Company at Dallas, Texas, has severed his connections to become vice president and sales manager of the Panther Grease Manufacturing Company, Inc., of Fort Worth, Texas. The Panther concern makes a complete line of lubricating greases and oils, operating a modern plant at Fort Worth.

G. W. Hoffman, engineer for the Oil Well Supply Company, Houston, Texas, will be in Oklahoma for several weeks on business for the company.

A. F. Ball, bookkeeper for the Oil Well Supply Company, Houston, Texas, has been confined to his home during the past week with the "dengue."

H. A. King, vice president of the Sinclair Oil and Gas Company, Houston, Texas, returned Monday from a business trip to the New York office of the Sinclair Consolidated Oil Corporation.

Mills Bennett, president of the Swiftsure Petroleum Company, Houston, Texas, left Houston Monday for Dublin, Texas, Erath County, for a two-week vacation. Dublin is Mr. Bennett's old home town.

Bradford Hearn, assistant manager of the Shreveport Producing and Refining Company, headquarters at Shreveport, Louisiana, was in Houston during the week greeting old friends and making new ones. Brad is a man young in years, but a live wire in his line. He was a most welcome visitor at The OIL WEEKLY office.

Work Starts on Sinclair Line From Mexia to Houston Channel

TULSA, OKLA., Oct. 23.—Work has begun on Sinclair Pipe Line Company extensions, which when completed, will add 65,000 barrels to the daily outlet of the Mid-Continent and Texas oil fields.

The first gang went to work Monday on the line from Mexia south to the Sinclair plant on the Houston Ship Channel. By Nov. 1 three gangs will be at work on this 165 miles of 8-inch and 10-inch line, which will have capacity of 25,000 barrels daily. It should be completed within three months.

By Nov. 15, there will be 10 gangs of men working on the 8-inch and 12-inch loops, which will follow the route of the present Sinclair line from Drumright, Oklahoma, to the terminus at Whiting, Indiana.

So far, only surveys are being made for the line that will connect the Teapot Dome naval reserve pool with the Sinclair trunk line at Freeman, Missouri. Although the tentative route has been selected, this may be changed because of conditions necessary to crossing the mountains in Wyoming.

When work now underway is completed, the present Sinclair pipe line system will be augmented by 25,000 barrels of daily capacity to tidewater on the Houston ship channel, 15,000 barrels daily capacity from Drumright to the refining center around Kansas City, Mo., and 25,000 barrels daily capacity from Drumright to the Chicago refining center.

The extension from Mexia to Houston will have three pump stations, at Dean, Singleton and at Ventura. Right of way has been bought and sites for the pump stations taken. Construction work on the three pump stations will be under way by Nov. 1. The stations will be equipped with Diesel engines and Snow pumps.

Pipe for the southern extension is now being received at the rate of two miles each day.

So far the mills are on schedule with deliveries of pipe for all parts of the line. It is now being delivered in Illinois for the northern loops. The ten gangs to be working on this line by Nov. 15 will be Missouri and Illinois.

Right of way and pump station sites have been bought for the northern line. Additions are being made to all the pump stations between Drumright and Chicago, foundations are now being placed for the additional equipment. At each of the eleven pump stations between Chicago and Freeman, Mo., two 400 h. p. Diesel engines will be added to present equipment. In each of the seven stations from Freeman to Drumright, two engines of 750 h. p. each will be added to present equipment.

Announcement of the equipment to be used on the line from Freeman to Teapot Dome will not be made until the exact route of the line is determined.

The telegraph line is being extended from Mexia to Houston. Work on that is to begin Nov. 1.

SOMETHING IS FUNDAMENTALLY WRONG

(Continued from Page 78)

helpless to protect themselves, or quite so much in need of the benefits of co-operation as the producers of petroleum.

"Not being a lawyer, I may not understand, but somewhere I have gained the impression that the United States Supreme Court has construed the Sherman act to prohibit only such practices as are unreasonable. Will any one declare that it is unreasonable for oil producers to agree together not to destroy each other?

"However, if it is generally believed that such co-operation as is necessary, in emergencies, to stabilize and save the industry from demoralization, is prohibited by federal and state laws, then the laws should be amended.

"But we need more than freedom from such laws. We must have the proper spirit among ourselves; there must be a sincere desire to stabilize, there must be an appreciation that responsibility increases with power, and that, in great emergencies, all must make sacrifices in proportion to their strength and ability to do so. Is this possible? Yes—I believe it is. It will not be accomplished in a day, nor in a year, nor, perhaps, in a generation. The present standard of human relations is the result of the evolution of some thousands of years but, surely though slowly and with many setbacks, human society is realizing higher and higher ideals."

Work of the Association

"The Mid-Continent Oil and Gas Association has accomplished many valuable things of a practical nature. Some of them, such as the correction of injustices in revenue laws, many or all of you are familiar with, but the association has done, and is constantly doing, a multitude of things both important and unimportant, which few of you hear about, but which are of immense value to the industry. It has, also, I hope and believe, made some progress in bringing about a better understanding and more sympathetic feeling between the several branches of the industry and the individuals therein. Progress in that direction has been and always will be slow. Self-preservation is Nature's first law, and egoism yields most reluctantly to altruism. But, while as I have said, a little altruism in business will help and not hinder, without going so far as that, there is much to be gained by every branch of the industry through a more constant exchange of ideas and a clearer understanding of each others' problems, which will doubtless frequently disclose the fact that instead of being opposed, even their selfish interests lie parallel.

"The value of the Mid-Continent Oil and Gas association to the industry and each individual therein depends quite as much on the loyal and enthusiastic support which it may receive from the industry as it does upon the ability and earnest efforts of its officers and executive committee. Of course the principal burden of successfully conducting the affairs of the association devolves upon its secretary, and those of us who are familiar with his activities and with the ability, energy, and earnest purpose with which he strives, in the face of many obstacles, to build up and broaden in usefulness this association bespeak for him the loyal and universal support of the entire industry in the Mid-Continent field."

New York, N. Y., Oct. 23.—A. C. Bedford, chairman of the board of directors of the Standard Oil Company (New Jersey), will be one of the principal speakers at the annual banquet of the American Manufacturers Export Association, which is to be held in the Waldorf-Astoria on the night of October 26. Mr. Bedford will speak on foreign trade.

EASTERN STOCKS DECREASE IN JULY

Pittsburgh, Pa., Aug. 19.—Cumberland Pipe Line showed an increase in runs from wells during July while other carriers in the Appalachian system indicated a loss. The Illinois lines also showed a decrease in runs. Gross stocks decreased during the month.

Summary of traffic through pipe lines east of the Mississippi for July, as compared with the corresponding month of last year, follows:

	Runs From Wells		Other Receipts		Regular and Other Deliveries		Gross Stocks	
	1922	1921	1922	1921	1922	1921	1922	1921
Buckeye Pipe Line	399,780	419,278	2,073,204	3,456,577	2,427,099	2,530,592	6,347,345	4,733,563
Crescent Pipe Line	.....	.....	145,239	153,100	152,856	145,263	91,778	124,338
Cumberland Pipe Line	353,736	297,667	224	224	343,611	293,493	563,987	574,465
Eureka Pipe Line	419,744	557,422	572,577	745,778	1,154,587	1,263,485	1,902,308	2,123,662
Illinois Pipe Line	588,152	604,255	98,840	119,974	622,904	877,978	2,539,864	1,940,734
Indiana Pipe Line	19,825	21,812	2,340,433	2,541,732	2,379,998	2,631,041	783,934	671,724
National Transit	208,592	189,589	1,110,893	1,359,753	1,294,135	1,441,349	1,173,859	1,050,382
New York Transit	14,849	14,589	620,005	886,593	690,617	790,833	2,363,172	1,531,575
Northern Pipe Line	.....	.....	877,779	1,200,676	911,328	1,180,071	1,058,160	895,172
Southern Pipe Line	.....	.....	566,790	807,772	560,052	933,316	922,682	840,875
Southwest Penn Pipe Lines	94,169	71,665	893,594	779,066	924,901	799,327	787,305	846,872

Letters of a Coastal Bollweevil to His Sweetheart

Paul is now "on board" for Denver, getting a little ahead of the bunch, but his adventures have just started. Next week he has the time of his life, with real geologists all around him, and if he doesn't come back with some new words we'll miss our guess.

my deerst cleopatry—

well cleopatry, i woodnot of rote you now, only that i wanted you 2 no, cleopatry, about the awful time slim had last nite.

You no me and slim was intendin for 2 catch a trane on friday nite so as 2 git 2 Denver in time 2 git a good boardin' house. well, cleopatry we was goin good 2 git the trane in time when slim notused a bootlegger he aint never saw in severl days and to pasify him we had 2 stop and git a dram or so. i jest cudnot git slim away from that feller cleopatry, till him and me had had sevral drinks and so we mist the trane. But cleopatry, they's more than one trane 2 Denver as we learnt and hear we air, on the board, so to speek.

An cleopatry i never was so sprized in my life when i walkt in2 that bedroom car and did not find no beds. i sed 2 the nigger that was awl aproned up like a chambermade,

"looka hear, boy, i gess im in the rong cotch."

"whear was you goin," he ast me.

"i got a ticket 2 Denver on the Pillman bedroom car," sez i, "and i aint saw no beds yit."

well, cleopatry altho i aint killed no niggers yet you no i aint standin fer no fulishnes from none of them, and cleopatry i aint made up my mind yet if i was rite 2 let that nigger look like he done. Finally he explaned that the cots was not made down yet whitch was a releaf 2 me, cleopatry, because i wood of hated 2 of undrest before that crowd for i wasnot going 2 sleap in my new close. so i new it wood be better 2 wate and undress in the dark.

When super time come me an slim went into the dining room cotch 2 git super but when we seen what them fellers was up 2 we uped and got out. Do you no, cleopatry that they aint been no depity sheriffs from goose Creek ridin on no pillman dining room coatches? well they aint and the reasin i no is that they wood of pincht the hole crew on that job for holdin the peopul up. i told Slim i gest we wood by a sandwitch when we seen one so rooled a cigaret and wated 2 pass a sandwitch town. but we never seen none.

jest when it begin gettin dark cleopatry and i thot id git to bed and git my moneys worth fer goin in that pillman bed room coatch, that nigger prest a little buttin and the coatch was lited up. I gess they must of had wun of them Luusy turbolite machines on boord the trane, cleopatry because that derned thing made as good a lite as i ever seen on any rig. i kept thinkin he would turn it off 2 let the folks go 2 bed but cleopatry that nigger didnot care nothin for the juce he was usin on that coatch. finally i desided i was goin 2 bed, cleopatry, lite or no lite. but cleopatry, i ask you did you ever have 2 go 2 bed with a hole carload of folks lookin at you undressin?

Aint it embarrasin

i snook out on the back platform and was pullin off my pants when the kenduckter come along.

"What air you doin?" he ast me.

"i am fixin 2 go in swimmin, you derned nitehawk," sed i.

he smiled and sed "air you goin 2 sleap out hear on the platform?"

"i payd for me a bed on this trane and i gess if i want 2 sleap on the floor i wont have no opposition 2 speek of,'" sez i. "i aint saw no beds and i dont see no chants of none. im goin 2 sleap in that smoker or im goin 2 fite this hole buntch of rufnecks," i tole him cleopatry, you no, cleopatry i aint no prizefiter but i aint goin 2 let no trane boll weavil run it over me.

"jest wate and you kin undress in your birth," he told me.

"sure, i was undrest at my birth," i answered him, "and i gess you was too. but i aint figgerin on havin no second birth now."

"you misunderstud me," he tole me, and then explaned that i cud git behin a curtin in the coatch. well, cleopatry when i went back into that coatch it was some changed. It didnot look no more like it did when i got on the platform than a rotary looks like a derned cable rig. they had let the sealing down and maid beds outin it, cleopatry. well, i undrest behind the curtin and went 2 bed in my underware. Then slim he comes in and starts 2 bed with his close on.

"You cant sleap in this hear clean place with me and my new underware with your close on," i tole him.

"i dont gess the pillman company's any better than the guffey people and i been sleepin in my bunk thear for two years without taking off my close," sed Slim.

well, finely, cleopatry, i pershuaded slim that he hadnot orter sleap in his close and then come the worst part. When slim took offen his close he didnot have no more underware on than a Mexican dog.

cleopatry, can you imagin such a site? so i told him he cud sleep in his shirttail.

i dont reckon cleopatry you keer about hearin all the capers slim cut on that trane but i will tell you about the meel we had. We kept waitin for a sandwitch town but they wasnot any. So by dinner time the next day slim and me was hungry as a bunch of rufnecks ever got.

"i reckon we can git wun meal on this pillman trane," sed slim, and i agread with him. so we wint in 2 the dinin room and set down. Cleopatry, you no me as a truthful man, and i aint no lyer when i say that they had the best smell in the world in that dinin coatch.

"what do you want," sez slim to me.

"I want it awl," i tole slim, so i red her threw and hear is what i tole the water 2 rite down in his little timebook.

1 stake well dun
1 french fryed pertaters.
1 sweat pertatters.
1 makeroni and chease.
fig preserves
1 fish
1 glas milk.
1 cup coffee.
1 assortid cakes
1 ham and aigs.
2 icecreems.

i tried to order some fryd onuns but the water said they didnot have none neither no ribbincane molasses.

It certnly was some meel cleopatry and i certnly did enjoy myself. but oh, i still have the hedake from what the water sed when i got redy 2 leave the tabul.

Five dollars and fiftean sents! why cleopatry, i can board a weak with the Gulf people fer that amt.

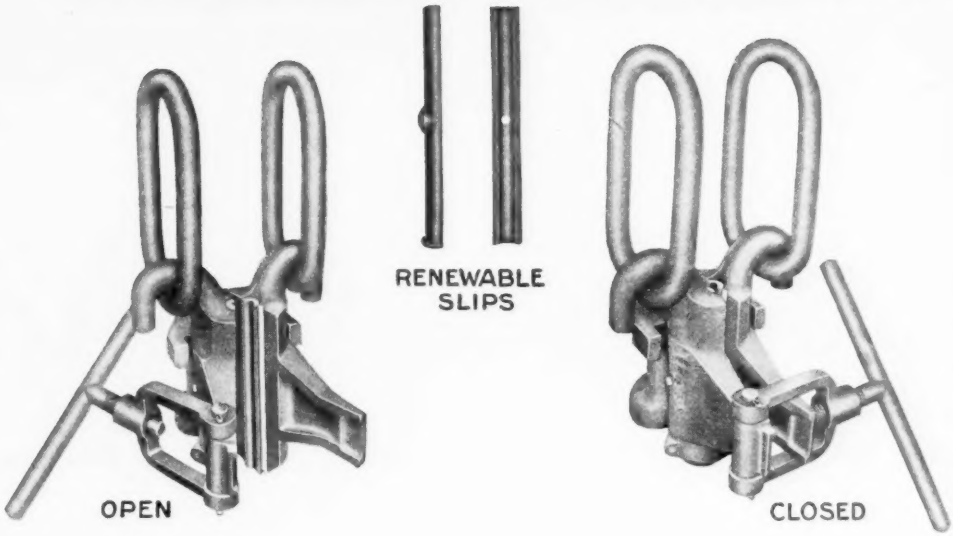
but hear i am gittin clost 2 Denver and i gess we can git things reasnble, speshully stakes and such like becaus i understand that Denver is a grate packn house town.

am expectn a letter from you when i git 2 Denver and cleopatry remember what i tole you about Slim Pearsall, he aint fit compny fer sich a little lady as you, cleopatry. besides, honey, as i tole yu, he's got the itch. Has had it fer 5 yrs awlreddy and has 2 moar 2 go.

with luv and kisses from your

Paul.

IDEAL
WIRE LINE CLAMPS



Perfect Balance
Positive Grip

Parts Interchangeable
Slips Renewable

Note also simple method of retaining links in locked position as well as auxiliary groove for gripping sand line. Provision made for jockey stick connection.

NATIONAL SUPPLY Co'S

SQUEAKS from the BULL WHEEL

TO MAKE WELLS FLOW

J. A. Armstrong who sells Byers wrought iron pipe and tubing in California, never runs out of arguments in favor of wrought iron. After talking himself blue in the face, to a Los Angeles jobber the other day, he came up to a grand finale like this: "Why man alive, —you know what? Byers tubing actually has capillary attraction for oil. Yes, Sir! You can put Byers tubing in a well that has been a pumper, and this tubing will make a flowing well out of it, by the power of capillarity." The jobber wants to know "what is capillarity?"

The Magnolia Company distributed thimbles as souvenirs at the Dallas Fair. They can be used effectively by oil men as whisky glasses when giving drinks to friends.

"I have a terrible toothache and want something to cure it."

"Now, you don't need any medicine. I had a toothache yesterday and went home and my wife kissed and consoled me so that the pain soon passed away. Why don't you try the same?"

"I think I will. Is your wife at home now?"

Old Lady—"Son, can you direct me to a bank?"

Boy—"Yessum, for a quarter."

"Isn't that mighty high pay for a boy?"

"No'm not for a bank director."—Success.

SHIFTLESS HUBBY

Topics of the Day Films.

Mrs. J. Walker—I see you are driving the new car yourself.

Mrs. K. Driver—Yes, my husband has been so busy he hasn't learned to change gears yet.

Mrs. J. Walker—He hasn't?

Mrs. K. Driver—No he can't change the gears, so I have to shift for myself.

"Honest, old man, you appear to be growing shorter."

"No wonder. Three times I've been let in on the ground floor of oil propositions with the usual results."—Buffalo Express.

Dam!!

One day as I chanced to pass
A beaver was damming a river,
And a man who had run out of gas
Was doing the same to his flivver.
—Pure Oil News.

IT'S NOT BEING DONE

One oil stock promoter has filed a charge of theft against another oil stock promoter, alleging that he stole a $5000 horse-hair bridle.

What do oil stock promoters want with a bridle?

If it has been a nose ring or even a halter, we might understand. But whoever heard of anybody bridling his bull—and what's more—don't promoters generally let their bull run loose.

The gang that stole a boiler with the steam up, had nothing on an Oklahoma gang apprehended by Grant County authorities in Oklahoma last week, stealing gasoline from tank cars on a siding. The gasoline was being syphoned from the cars into barrels loaded on a truck and driven along beside the track. When officers arrived, 55 barrels of gasoline had been taken. Those arrested included a man and two women. Another man escaped.

"Bub" King, The OIL WEEKLY branch manager at Wichita Falls, was threatened with dengue last week, but "Texas Company" Corlett took the young man over into Archer County and the dengue threat is in the past. That man Corlett knows how to handle young men who are "off their feed."

Kansas City Structural Steel Company

"Nearest the Field"

—Our location at Kansas City, a point within the Mid-Continent Field
—A stock of 8000 tons especially selected to meet the needs of the Oil Industry
—A shop fabricating capacity of 5000 tons per month
—And direct rail connections with every oil field

enable us to make second and third morning delivery to Oklahoma and North Texas points. Fifth and sixth morning delivery to Gulf Coastal points.

5000 to 55,000 Barrel Tanks completely fabricated for immediate shipment

GENERAL OFFICE AND PLANT
21st and Metropolitan Ave.
KANSAS CITY, KANSAS

SALES OFFICES
809 Daniels Bldg., TULSA, OKLA.
703 Orear Leslie Bldg., KANSAS CITY, MO.

GUIDE FOR PURCHASERS

Air Lift Pumping Equipment
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Attorneys
Hirsch & Hannay
Vinson, Elkins & Wood

Agitators
Chicago Bridge & Iron Works
Kaw Boiler Works Co.

Balls and Seats
The Charles N. Hough Mfg Co.

Banks
Exchange Banks of Tulsa
First National Bank of Tulsa

Belting
Atlas Supply Co.
Bridgeport Machine Co.
Frick-Reid Supply Co.
Lucey Mfg. Corp.
Norris Bros.
Oil Well Supply Co
The National Supply Cos.

Boilers
Atlas Supply Co.
Bridgeport Machine Co.
The Brownell Co.
Frick-Reid Supply Co.
Kaw Boiler Works Co.
The National Supply Cos.
Oil Well Supply Co.
Oklahoma Tool & Sup. Co.
Texas Supply Co.
Titusville Iron Works Co.
Tulsa Boiler & Sheet Iron Wks.
United Iron Works, Inc.
Youngstown Boiler & Tank Co.
See Oil Well Supplies & Tanks

Bolt Machines
Williams Tool Corporation

Burners
Gaso Pump & Burner Mfg. Co.
Norris Bros.

Bull Wheels
International Derrick & Equipment Co.

Casing Shoes
Bridgeport Machine Co.
Gulf Coast Machine & Sup. Co.
The National Supply Cos.
Pelican Well Tool & Supply Co.

Compressors
Atlas Supply Co.
Clark Bros. Co.
Gardner Governor Co.
F. W. Heitmann Co.
Hope Engineering Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.
United Iron Works, Inc.

Cordage
The National Supply Cos.

Couplings
Harrisburg Pipe & Pipe Bending Co.

Crown Blocks
American Well & Pros. Co.
Boykin Machinery & Supply Co.
Gulf Coast Machine & Sup. Co.
International Derrick & Equipment Co.
Lucey Manufacturing Corp.
Lufkin Foundry & Machine Co.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

Dehydrating Processes
W. S. Barnickel & Co.
De Laval Separator Co.
Petroleum Rectifying Co.

Derricks and Rigs
International Derrick & Equipment Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Robertson-MacDonald Lbr. Co.
Superior Tube Co.

Diamond Core Drills
Sullivan Machinery Co.

Ditchers
Buckeye Traction Ditcher Co.

Draw Works
American Well & Pros. Co.
Boykin Machinery & Sup. Co.
Lufkin Foundry & Machine Co.

Drilling Cables
Bridgeport Machine Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
The National Supply Cos.
Peden Iron & Steel Co.
Williamsport Wire Rope Dist. Co.

Drilling Machines
Bridgeport Machine Co.
Parkersburg Rig & Reel Co.
Robertson-MacDonald Lbr. Co.

Drill Pipe
Reading Iron Co.
Standard Seamless Tube Co.
Texas Supply Co.

Drilling Equipment
American Well & Pros. Co.
Bridgeport Machine Co.
Union Tool Co.

Drive Pipe
Reading Iron Co.

Electrical Equipment
Enameled Metals Co.
Southwest Gen. Elec. Co.
Westinghouse Elec. & Mfg. Co.

Elevators
Bridgeport Machine Co.
Dunn Manufacturing Co.
Gulf Coast Machine & Sup. Co.
Norris Bros.
Wilson & Willard Mfg. Co.

Engineers
Samuel J. Caudill
F. W. Freeborn Eng. Co.
James Glenn
A. S. Henley
Geo. C. Matson
Lee C. Moore & Co.

Engines, Diesel
Western Machinery Co.

Engines, Gas
Atlas Supply Co.
Foos Gas Engine Co.
Western Machinery Co.

Engines, Oil
Atlas Supply Co.
Western Machinery Co.

Engines. Pumping
Western Machinery Co.

Engines
Ajax Iron Works
American Well & Pros. Co.
Atlas Supply Co.
Bessemer Gas Engine Co.
Bridgeport Machine Co.
The Brownell Co.
Clark Bros. Co.
De La Vergne Machine Co.
Foos Gas Engine Co.
Frick-Reid Supply Co.
Hope Engineering Co.
Ingersoll-Rand Co.
Lucey Manufacturing Corp.
Lufkin Foundry & Machine Co.
The National Supply Cos.
National Transit Pump & Machine Co.
Oil Well Supply Co.
Peden Iron & Steel Co.
Southern Engine & Pump Co.
Titusville Iron Works Co.

Fire Protection
Foamite-Childs Corporation

Fish Tail Bits
American Well & Pros. Co.
Gulf Coast Machine & Sup. Co.
Pelican Well Tool & Sup. Co.
W. K. M. Company

Floor Circle Brace
Dunn Manufacturing Co.

Fuel Oil
Empire Refineries
Gulf Refining Company
Sinclair Refining Company
White Oil Corporation

Gasoline Extraction Compressors
Bessemer Gas Engine Co.
Clark Bros. Co.
Gardner Governor Co.
Ingersoll-Rand Co.
Kaw Boiler Works Co.
Sullivan Machinery Co.

Gasoline and Oil Storage Tanks
Chicago Bridge & Iron Works
Kansas Cty Struct. Steel Co.
Kaw Boiler Works Co.
Parkersburg Rig & Reel Co.

Gas Traps
Trumble Gas Trap Co.

Gauges
The Foxboro Co., Inc.

Geologists
Samuel J. Caudill
James L. Darnell
Alexander Deussen
Dorsey Hager
A. S. Henley
Robert T. Hill
Edwin B. Hopkins
Geo. C. Matson

Gauge Boards
The Foxboro Co., Inc.

Genuine Wrought Iron Casing
Reading Iron Co.

Grips and Clamps
Norris Bros.

Hose
B. F. Goodrich Rubber Co.

Laboratory Equipment
Fort Worth Laboratories

Lighting Systems
Bridgeport Machine Co.
Lucey Manufacturing Corp.
Westinghouse Elec. & Mfg. Co.

Line Pipe
Reading Iron Co.

Lumber
Robertson McDonald Lbr. Co.

Maps
James Glen
Rock Map Co.

Meters
The Foxboro Co., Inc.

Motors
Southwest General Electric Co.

Oil Conservation
The Petroleum Safety Appliance Co.

Oil Field Supplies
American Well & Pros. Co.
Atlas Supply Co.
Boykin Machinery & Sup. Co.
Bridgeport Machine Co.
Frick-Reid Supply Co.
Gulf Coast Mach. & Sup. Co.
Gardner Governor Co.
B. F. Goodrich Rubber Co.
Kansas City Struct. Steel Co.
The Kelly & Jones Co.
Lucey Manufacturing Corp.
Lee C. Moore & Co.
The National Supply Cos.
Norris Bros.
Oil Well Supply Co.
Oklahoma Tool & Supply Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Southern Brass Mfg. Co.
Texas Supply Co.
United Iron Works., Inc.
Union Tool Co.
Western Supply Company

Oil Investments
Kosmos Petroleum Co.

Oil Producers
Standard Oil Co. of N. J.

Packers
The Guiberson Corporation
Layne & Bowler
Pelican Well Tool & Sup. Co.

Packing
B. F. Goodrich Rubber Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.

Paints
Peden Iron & Steel Co.

Patents
Hardway & Cathey
Jesse R. Stone

Pipe Grips
Norris Bros.

GUIDE FOR PURCHASERS—Continued

Pipe
Atlas Supply Co.
A. M. Byers Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
Harrisburg Pipe & Pipe Bending Co.
Interstate Pipe Co.
Lucey Manufacturing Co.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Reading Iron Co.
Standard Seamless Tube Co.
Texas Supply Co.
Williamsport Wire Rope Co.

Pipe Machines
Williams Tool Corporation

Pipe Screwing Machines
Buckeye Traction Ditcher Co.

Pipe Threading Machines
Williams Tool Corporation

Pipe Threading
Williams Tool Corporation

Pipe Tongs
W. K. M. Company

Pipe Vises
J. H. Williams & Co.

Pipe Wrenches
Dunn Manufacturing Co.
The Guiberson Corporation
J. H. Williams & Co.

Portable Buildings
International Derrick & Equipment Co.

Portable Compressors
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Portable Drilling Rigs
Bridgeport Machine Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
The National Supply Cos.

Pulleys
International Derrick & Equipment Co.
Lee C. Moore & Co.

Pulling Machines
Myrick Machine Co.
Thrift Hydraulic Casing Pulling Co.

Pumps
American Well & Pros. Co.
Atlas Supply Co.
Axelson Machine Co.
Gardner Governor Co.
Frick-Reid Supply Co.
Gaso Pump & Burner Mfg. Co.
The Goulds Mfg. Co.
Ingersoll-Rand Co.
Lucey Manufacturing Corp.
Norris Bros.
National Transit Pump & Machine Co.
The National Supply Cos.

Pumps
Oil Well Supply Co.
Pelican Well Tool & Sup. Co.
Southern Engine & Pump Co.
United Iron Works, Inc.

Pumping Powers
Kansas City Hay Press & Tractor Co.

Refined Products
Empire Refineries, Inc.
Gulf Refining Co.
Humble Oil & Refining Co.
Producers & Refiners Corp.
Sinclair Consolidated Co.
Standard Oil Co. of N. J.
Sunshine State Oil & Ref. Co.
The Texas Company
Union Petroleum Co.
Warner Petroleum Co.
White Oil Corporation

Retorders
Fort Worth Laboratories
The Foxboro Co., Inc.

Refinery Equipment
Atlas Supply Co.
Chicago Bridge & Iron Works
Frick-Reid Supply Co.
Gardner Governor Co.
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Petroleum Iron Works Co.
Phoenix Iron Works Co.
Titusville Iron Works
Tulsa Boiler & Sheet Iron Wks.
United Iron Works, Inc.
Wyatt Metal & Boiler Works

Rig Irons
Frick-Reid Supply Co.
Lucey Manufacturing Corp.
Lee C. Moore & Co.
The National Supply Cos.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

Rotary Rock Bits
Hughes Tool Co.

Rotary Fish Tail Bits
Pelican Well Tool & Sup. Co.

Rotary Slips
W. K. M. Company

Separators
DeLaval Separator Co.
Gardner Governor Co.
Trumble Gas Trap Co.

Strainers
Layne & Bowler Co.
J. H. McEvoy & Co.
Pelican Well Tool & Sup. Co.

Structural Steel
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Pennsylvania Tank Car Co.
United Iron Works, Inc.

Steel Derricks
International Derrick & Equipment Co.

Steel Crown Blocks
Gulf Coast Mach. & Sup. Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Superior Tube Co.
Texas Supply Co.

Steel Storage Tanks
Chicago Bridge & Iron Works
Kaw Boiler Works Co.
The Petroleum Iron Works Co.
Phoenix Iron Works

Sucker Rods
Axelson Machine Co.
Dunn Manufacturing Co.
Norris Bros.
The National Supply Cos.

Stills
The Petroleum Iron Works Co.

Tank Cars
Pennsylvania Tank Car Co.

Tanks
American Tank Co.
Black, Sivalls & Bryson
The Brownell Co.
Chicago Bridge & Iron Works
Columbian Steel Tank Co.
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Maloney Tank Co.
Petroleum Iron Works
Phoenix Iron Works
Pittsburgh-Des Moines Steel Company
Parkersburg Rig & Reel Co.
Tulsa Boiler & Sheet Iron Wks.
United Iron Works Co.
Wyatt Metal & Boiler Works
Youngstown Boiler & Tank Co.

Tret-O-Lite
W. S. Barnickel & Co.

Thermometers
Fort Worth Laboratories
The Foxboro Co., Inc.

Threading Machines
Williams Tool Corporation

Tongs
Bridgeport Machine Co.
Dunn Manufacturing Co.
Guiberson Corporation
Norris Bros.
Pelican Well Tool & Sup. Co.
Wilson & Willard Mfg. Co.
J. H. Williams & Co.

Tool Joints
American Well & Pros. Co.
Bridgeport Machine Co.
Hughes Tool Co.
The National Supply Cos.
Pelican Well Tool & Sup. Co.
W. K. M. Company

Tools (Fishing and Drilling)
Bridgeport Machine Co.
Frick-Reid Supply Co.
Hughes Tool Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Sullivan Machinery Co.

Traveling Blocks
American Well & Pros. Co.
Boykin Machinery & Sup. Co.
Gulf Coast Machine & Sup. Co.
Lufkin Foundry & Machine Co.

Tubing Catcher
Dunn Manufacturing Co.
Guiberson Corporation

Tubing
Interstate Pipe Co.
Reading Iron Co.
Standard Seamless Tube Co.

Under-reamers
American Well & Pros. Co.
Bridgeport Machine Co.
Western Supply Company
Wilson & Willard Mfg. Co.

Vacuum Pumps
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Valves
The Charles N. Hough Mfg Co.

Valves and Fittings
Atlas Supply Co.
Chapman Valve Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
The Kelly & Jones Co.
Lucey Manufacturing Corp.
Ludlow Valve Mfg.Co.
Lufkin Foundry & Machine Co.
The National Supply Cos.
Norris Bros.
Peden Iron & Steel Co.
Wm. Powell Co.
Pratt & Cady
Reading Steel Casting Co.
Reading Valve & Fittings Co.
Southern Brass Mfg.Co.
United Iron Works

Walking Beams
International Derrick & Equipment Co.

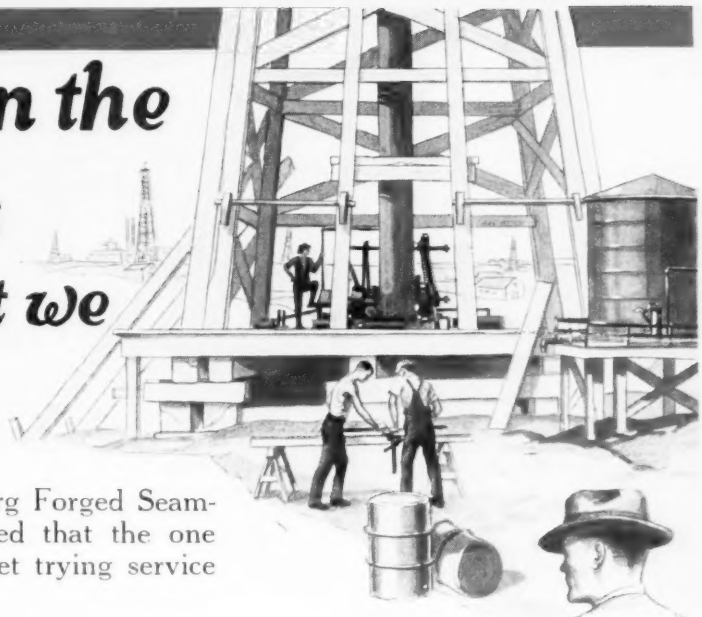
Working Barrels
The Charles N. Hough Mfg Co.

Water Gauges
F. W. Heitmann Co.

Wire Fence
Page Steel & Wire Co.

Wire Rope
Bridgeport Machine Co.
The National Supply Cos.
Williamsport Wire Rope Dist. Co.

You Men in the Oil Fields Proved that we were Right



Before manufacturing Harrisburg Forged Seamless Steel Couplings we believed that the one coupling which would fully meet trying service conditions:

—should not gall under the most severe strain
—should not strip either from screwing in the pipe, or from shocks
—should not go out of shape
—should resist to the utmost abrasion on the outside surface
—should have a perfect thread and a perfect taper
—should have no weld, no weak spot.

With these six points in mind the Harrisburg Forged Seamless Steel Coupling was perfected. That such a coupling filled a vital need is evidenced by the constantly increasing Harrisburg demand and the opinions of experienced operators throughout the oil country. Furthermore it is generally conceded among practical oil field engineers that the forged seamless steel coupling will supersede all other types of couplings.

There is no weld—no weakness—in Harrisburg. No piping to develop leaks—no galling or stripping—no breaking in bucking on. And the special forged seamless oil field steel—which gives Harrisburg double strength—is always uniform.

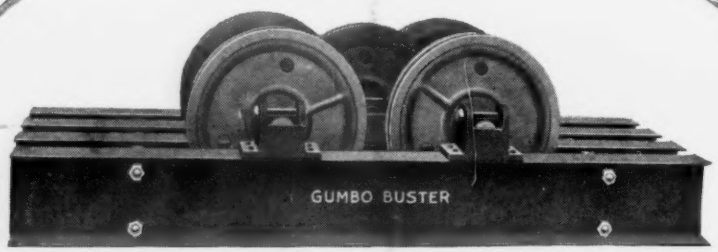
Manufactured by
HARRISBURG PIPE & PIPE BENDING CO.
Harrisburg, Penna.

Sold by
HARRISBURG PIPE & PIPE BENDING CO. of Texas, Inc.
Houston, Texas

HARRISBURG

Forged Seamless Steel Couplings

CROWN BLOCK



"GUMBO BUSTER"

Dependable

Gumbo Buster Crown Blocks have strength—the first requirement in any dependable crown block.

The sheaves are properly placed and so arranged as to properly distribute the weight and strain. Retaining pins prevent them from jumping out of their bearings.

Highest quality of material and workmanship gives the Gumbo Buster Crown Block exceptional strength without increasing weight.

Fully Guaranteed.

WRITE

REPUBLIC SUPPLY COMPANY, Sales Agents

OKLAHOMA—ARKANSAS—LOUISIANA—TEXAS

AMERICAN WELL AND PROSPECTING CO

CORSICANA, TEXAS